

FIG. 1

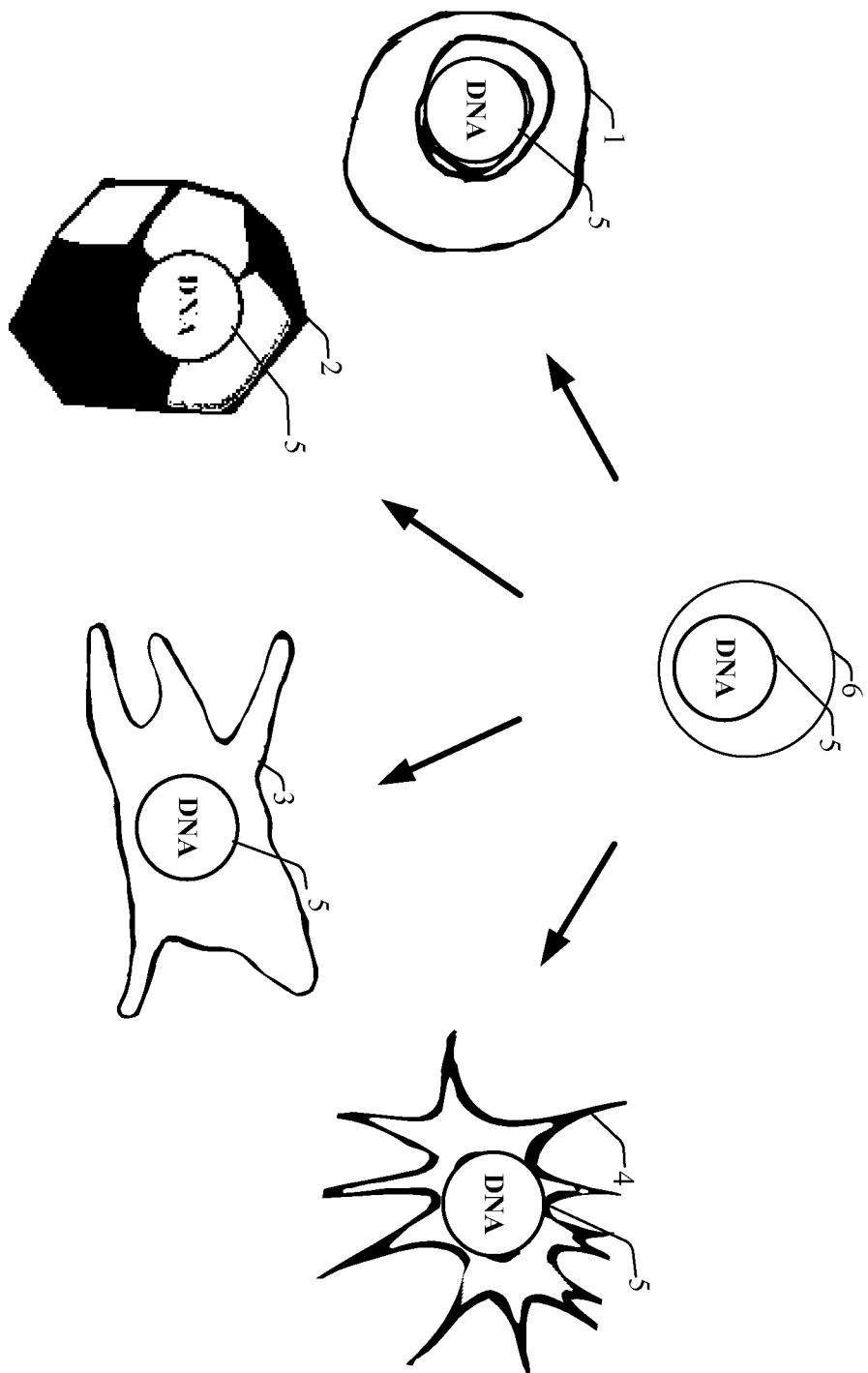


FIG. 2A

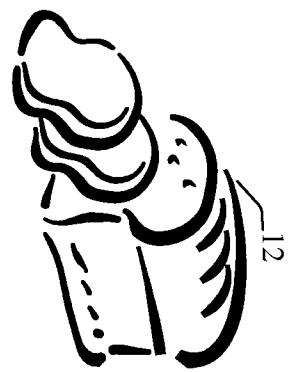
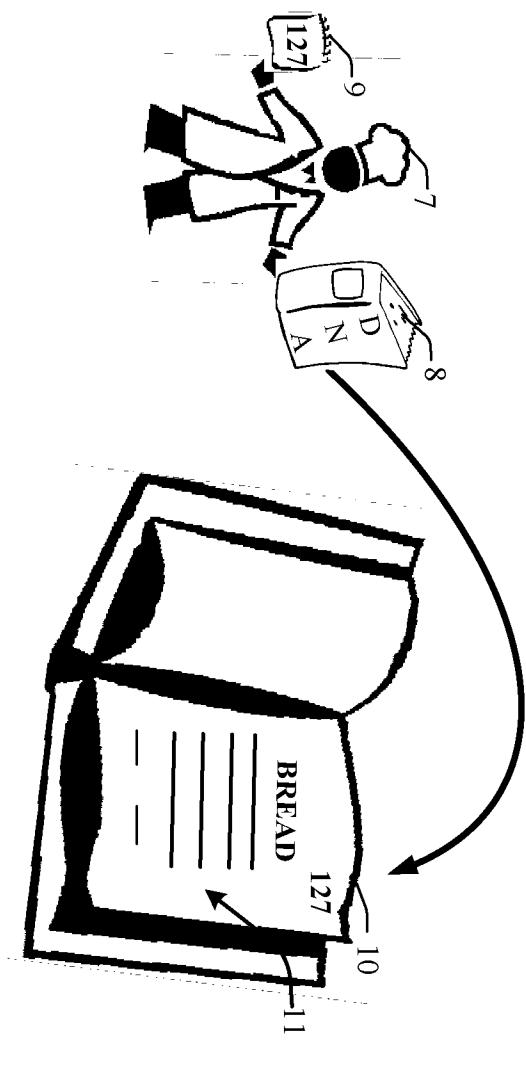


FIG. 2B

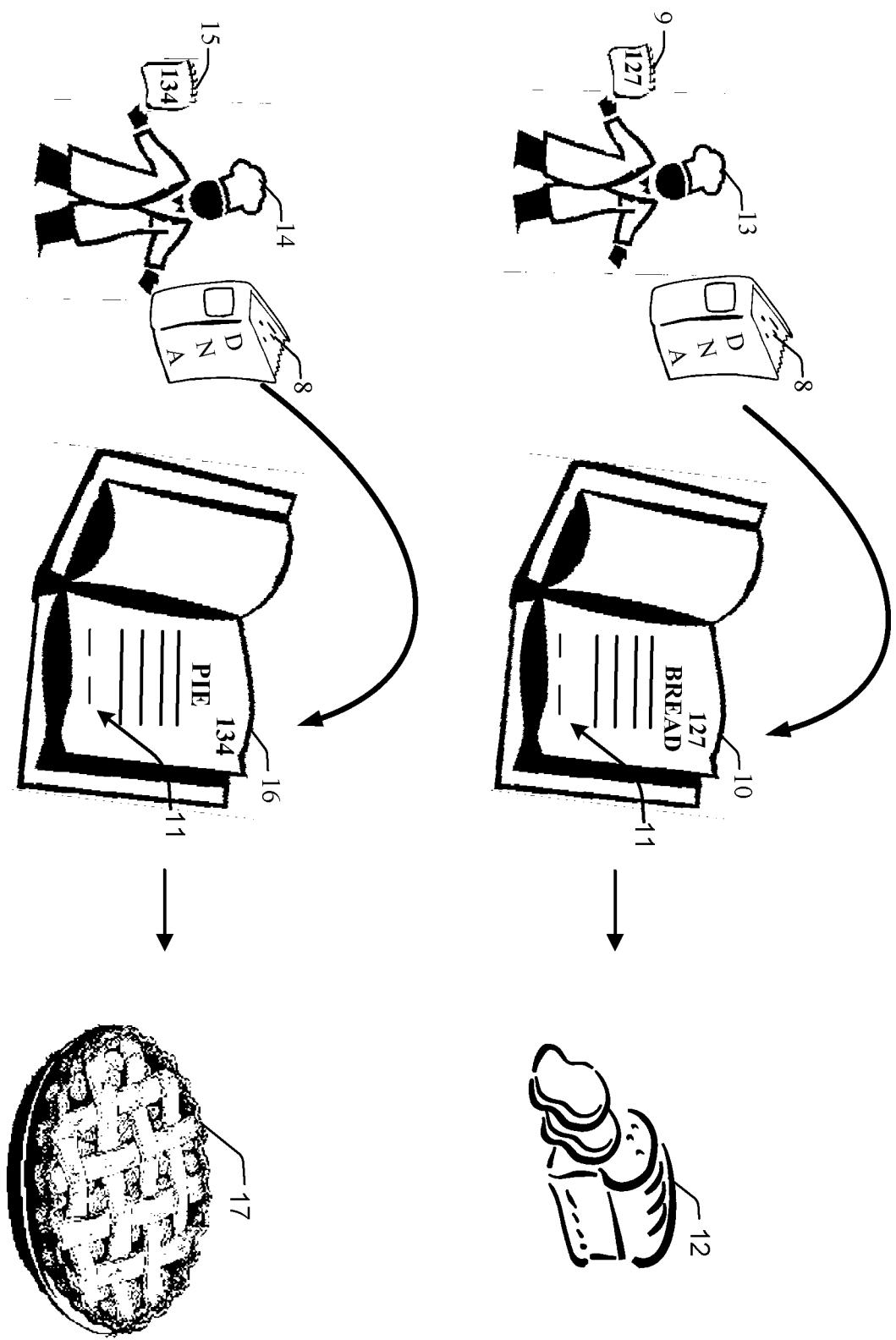


FIG. 3

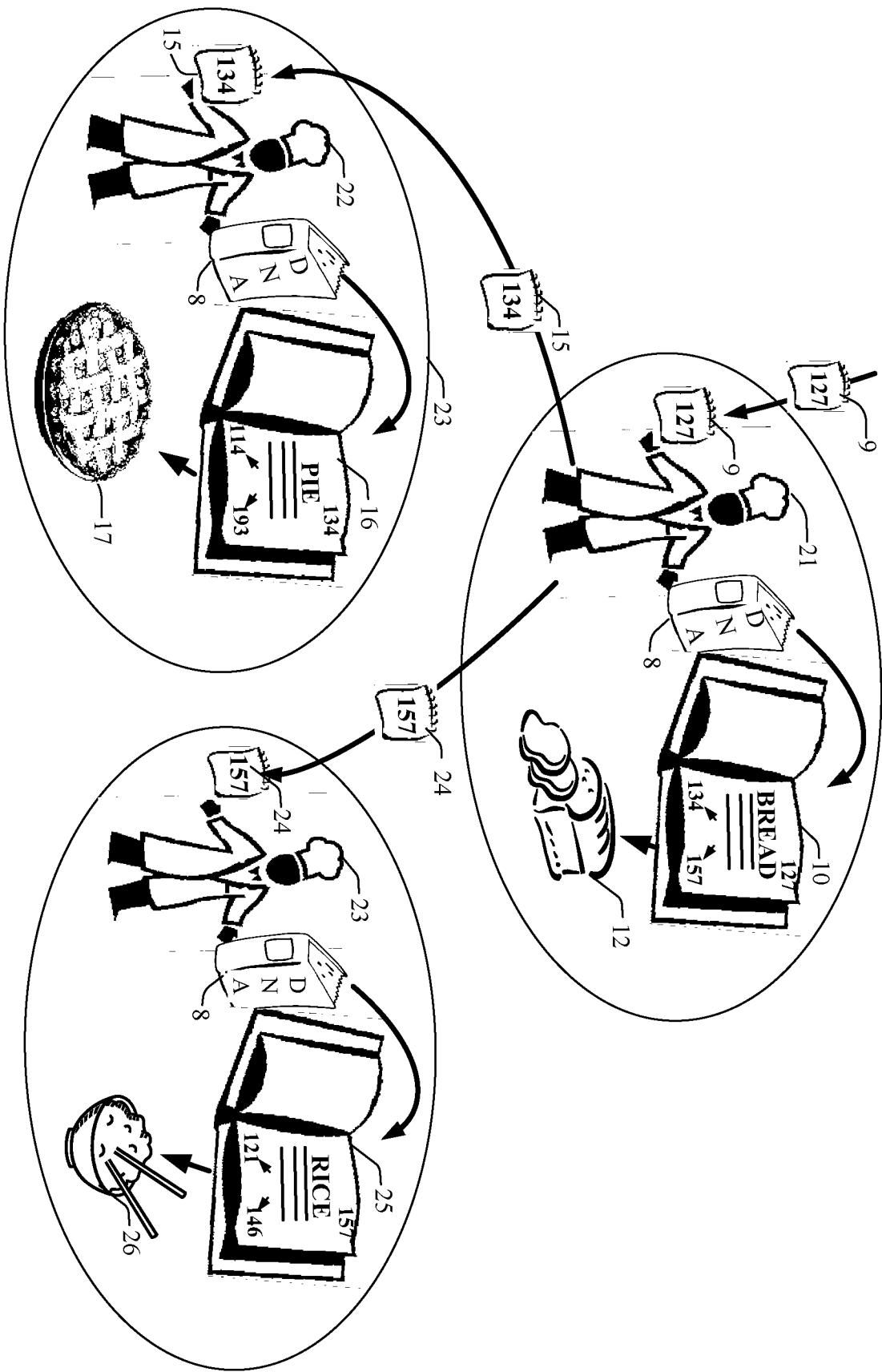


FIG. 4

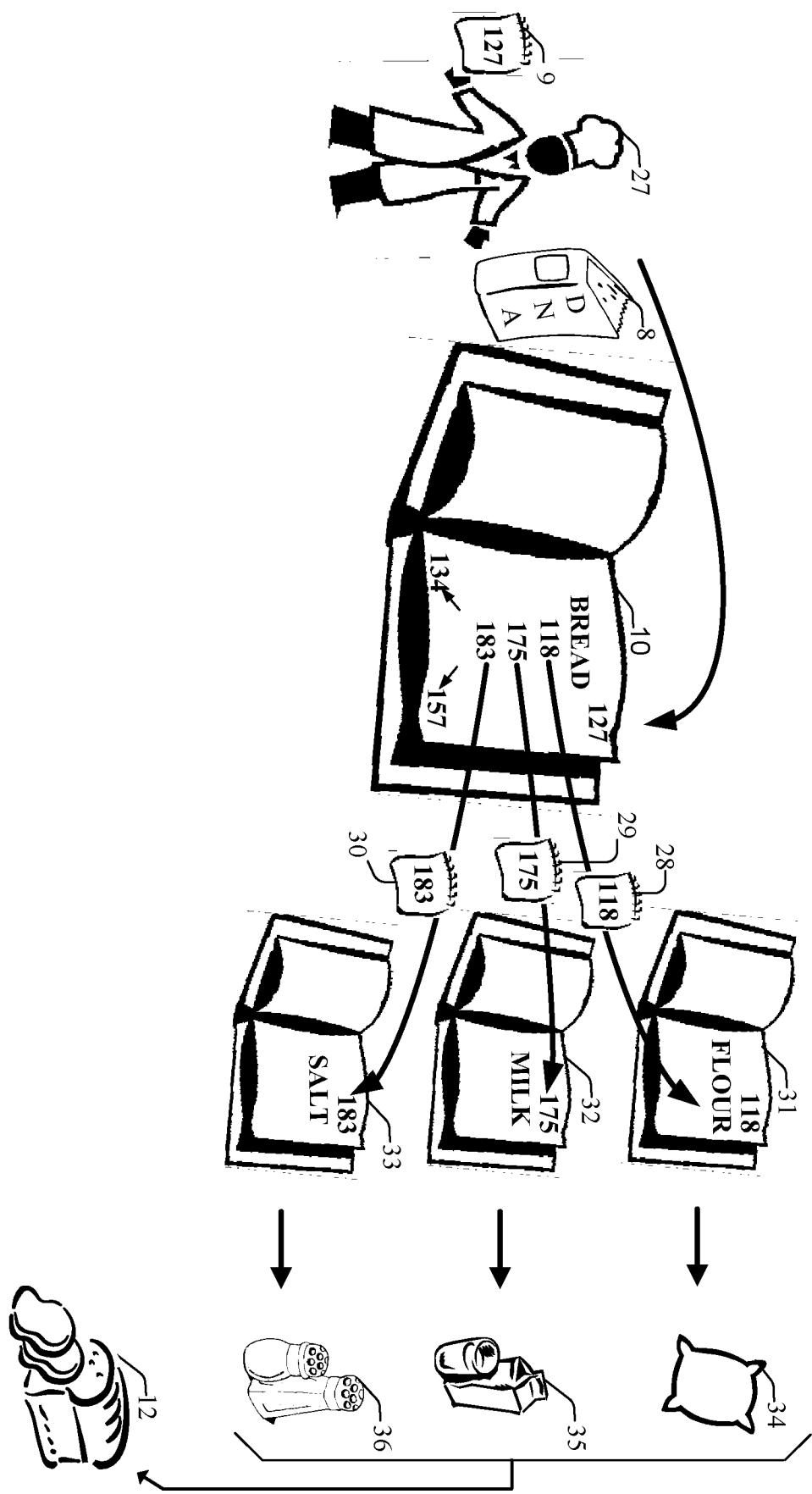


FIG. 5A

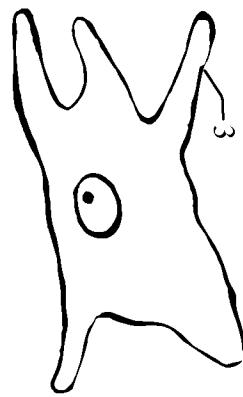
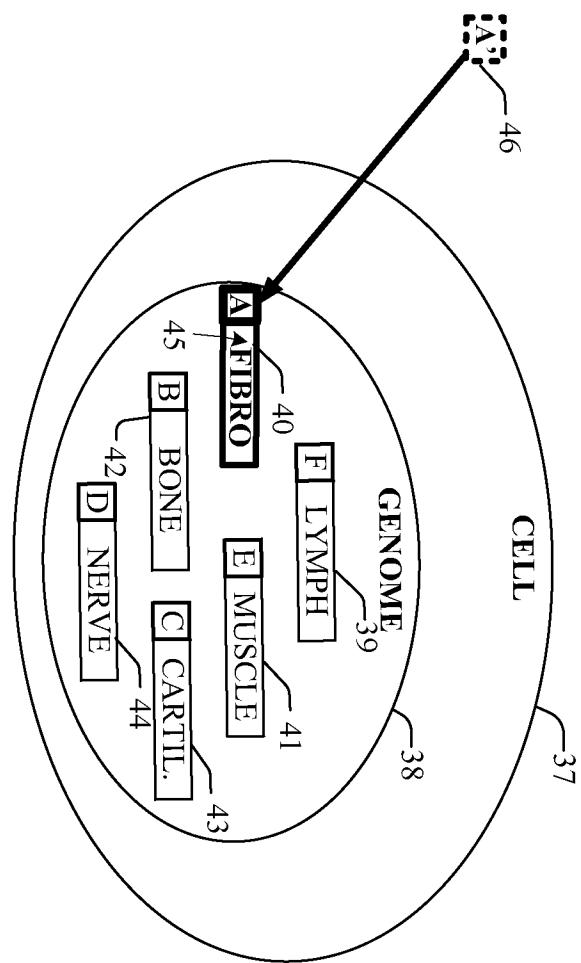


FIG. 5B

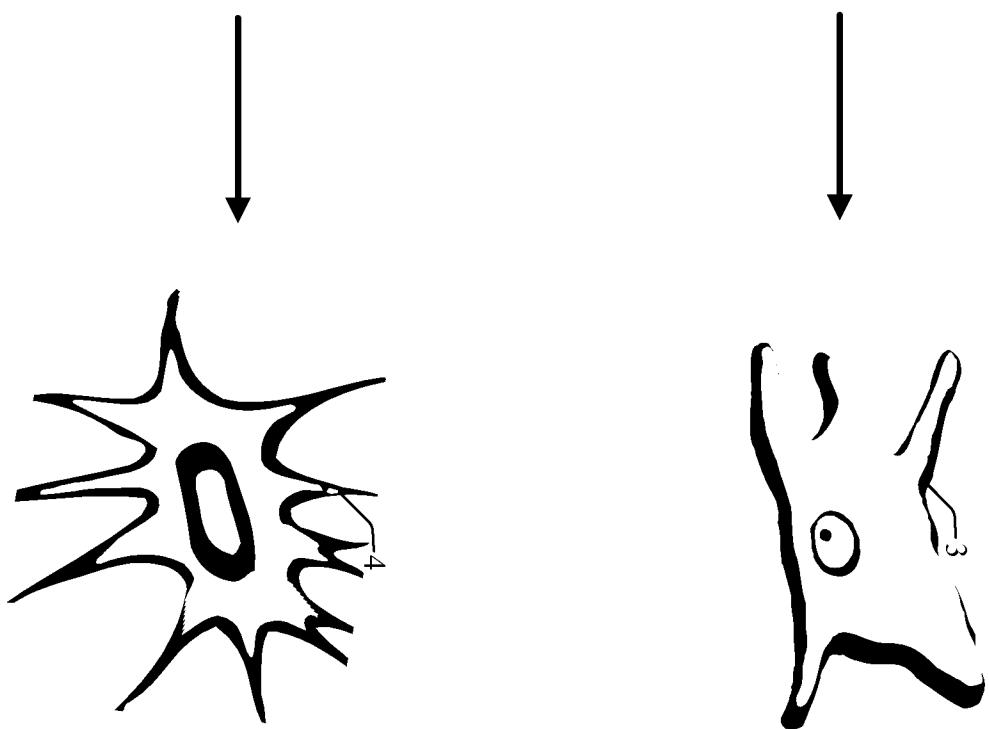
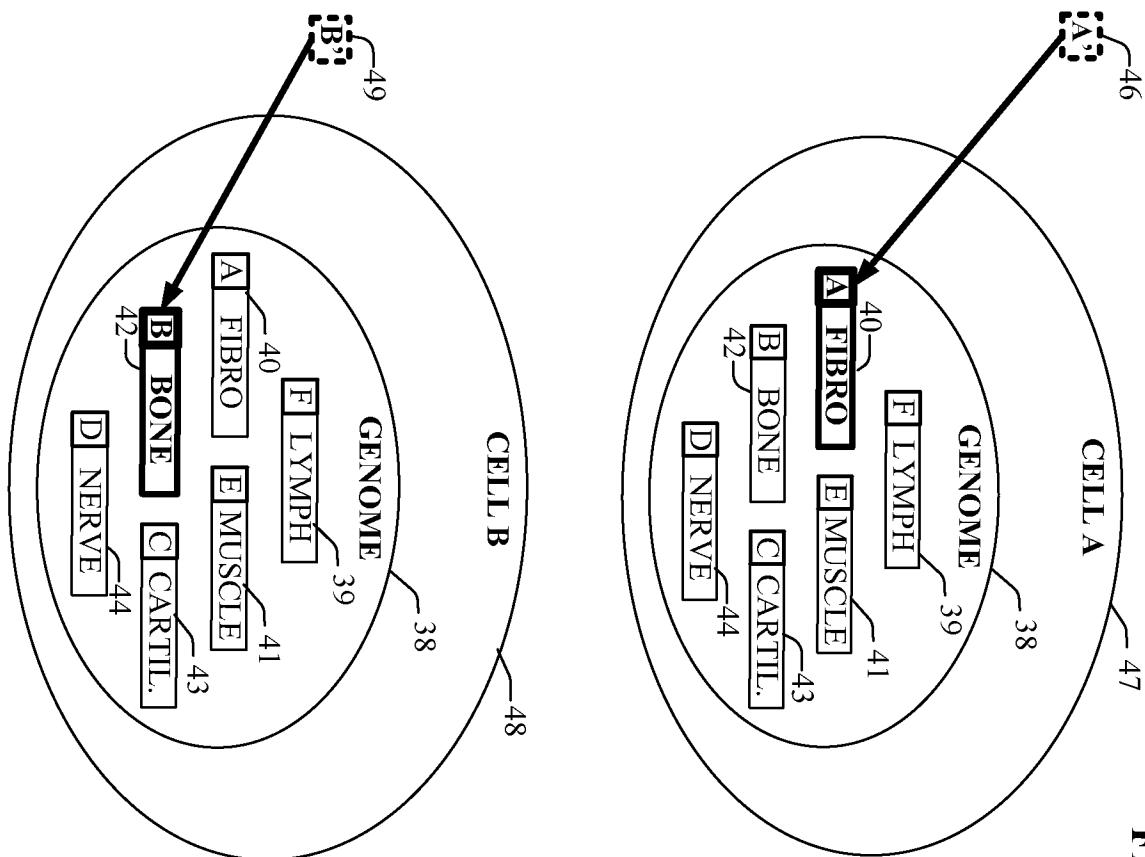


FIG. 6

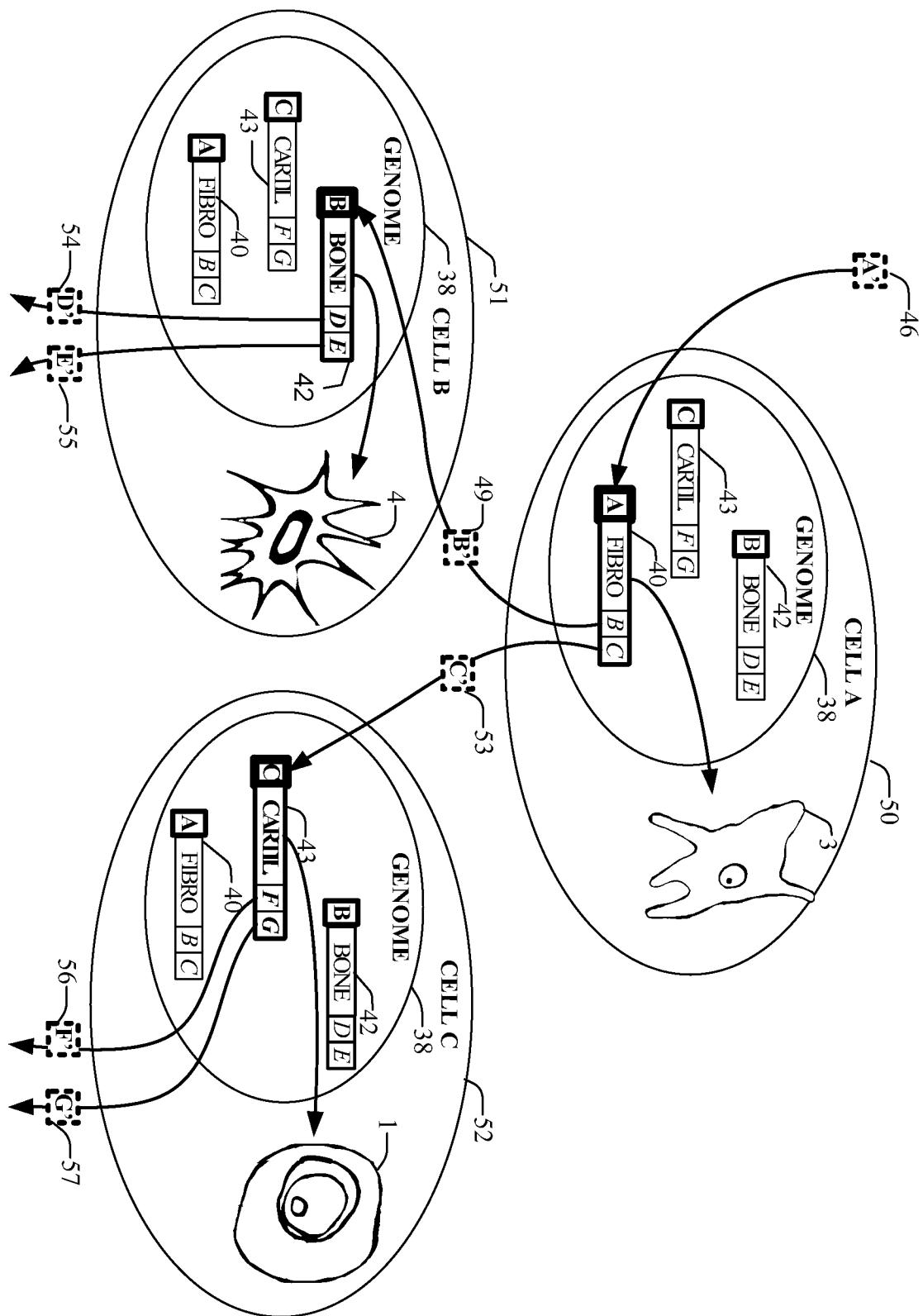


FIG. 7

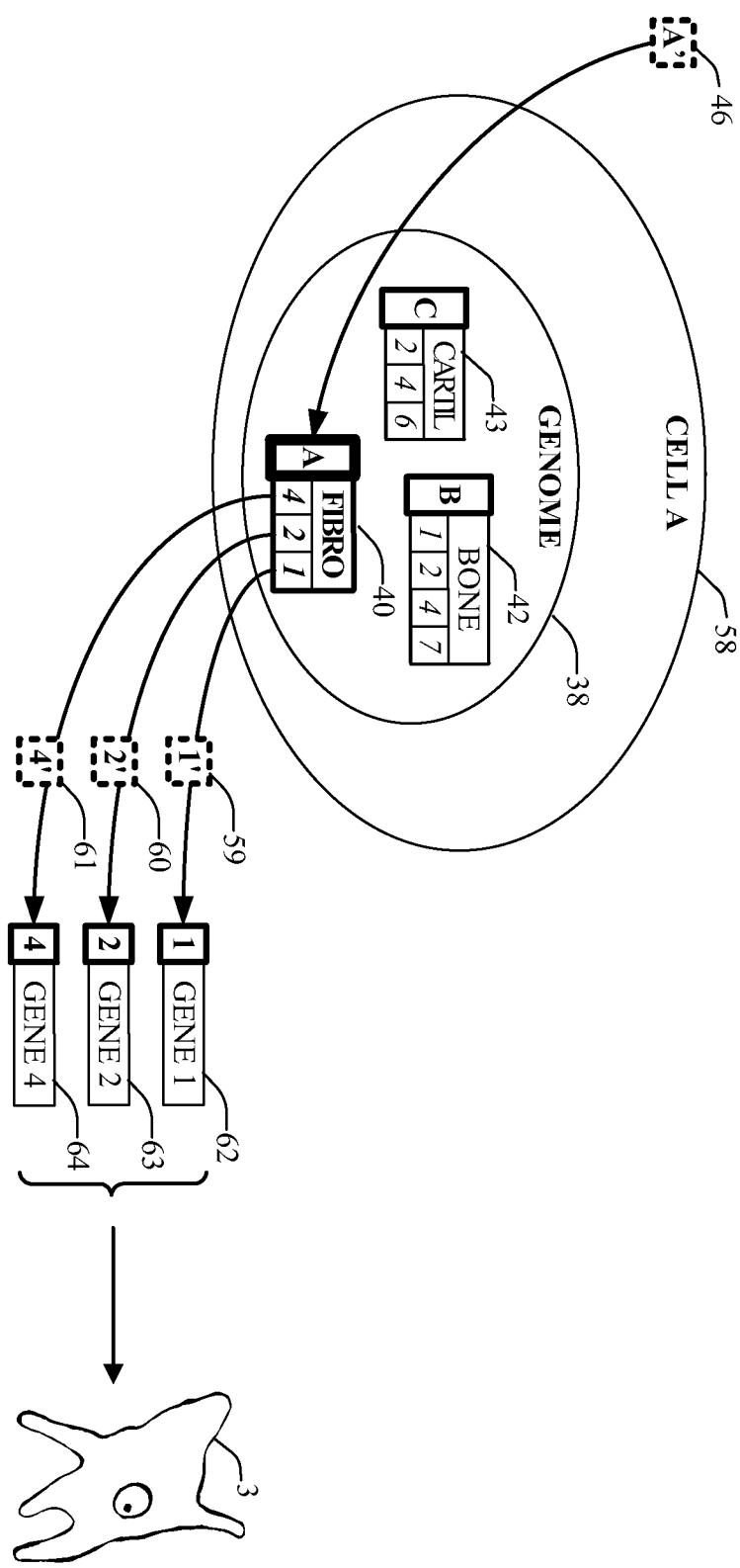


FIG. 8

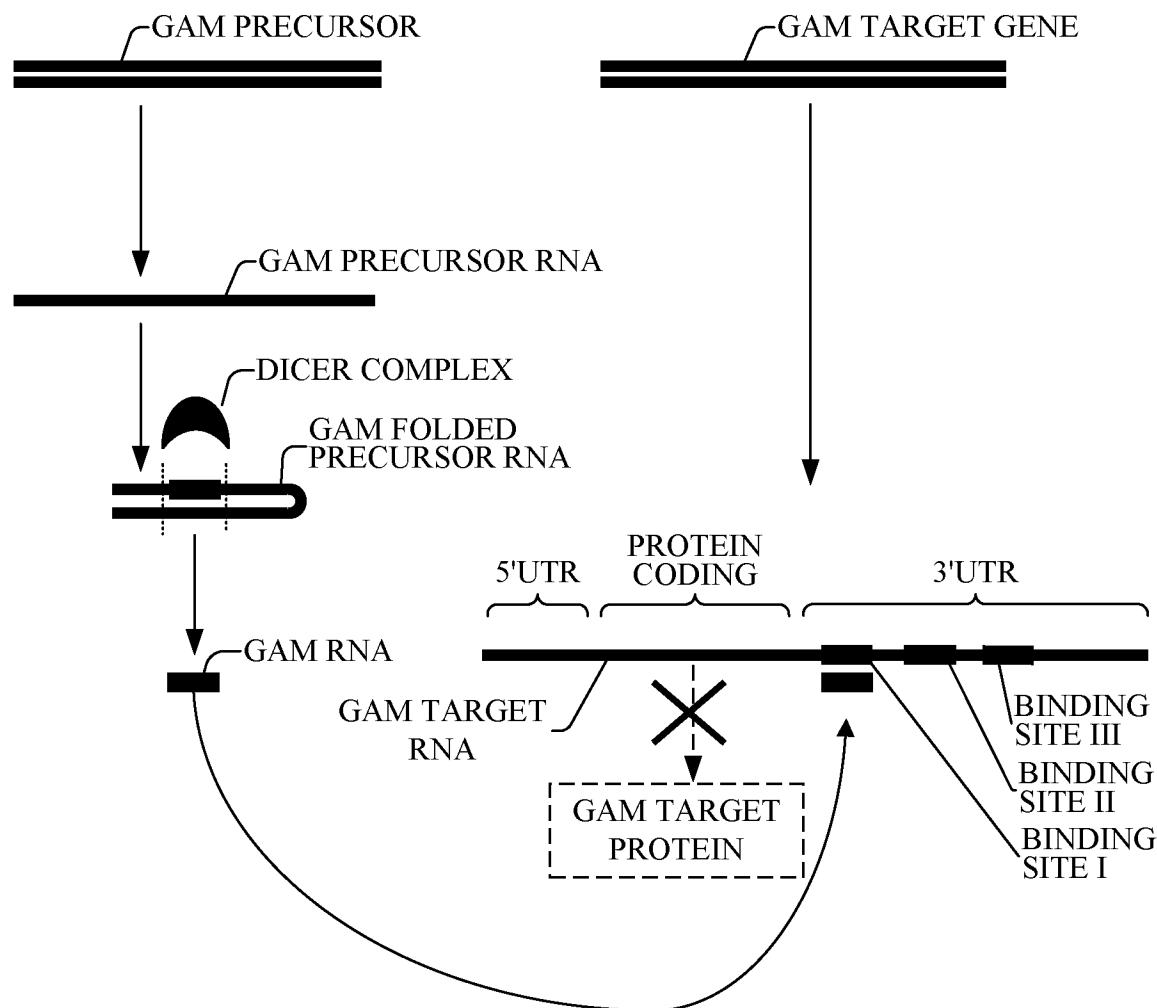


FIG. 9

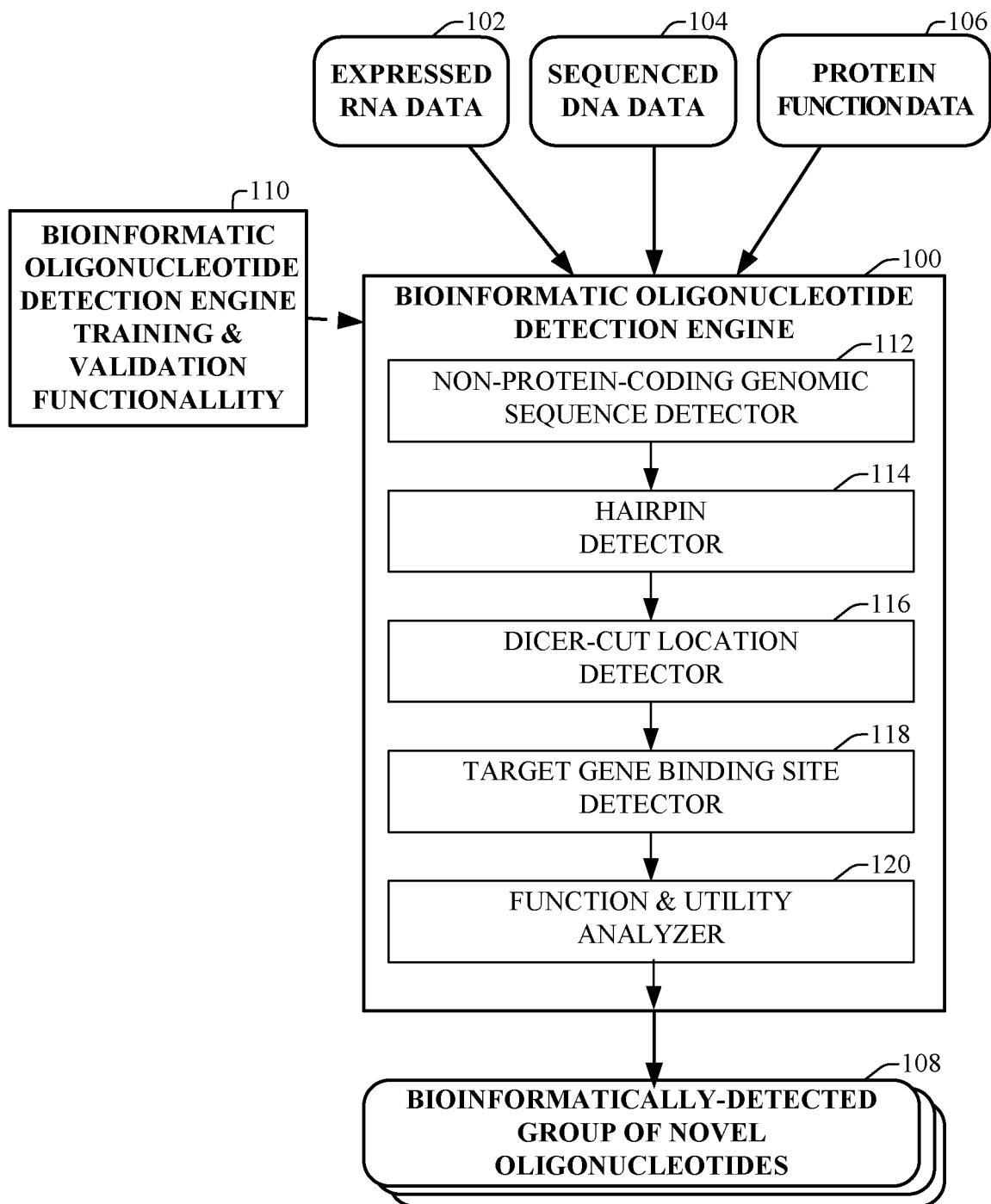


FIG. 10

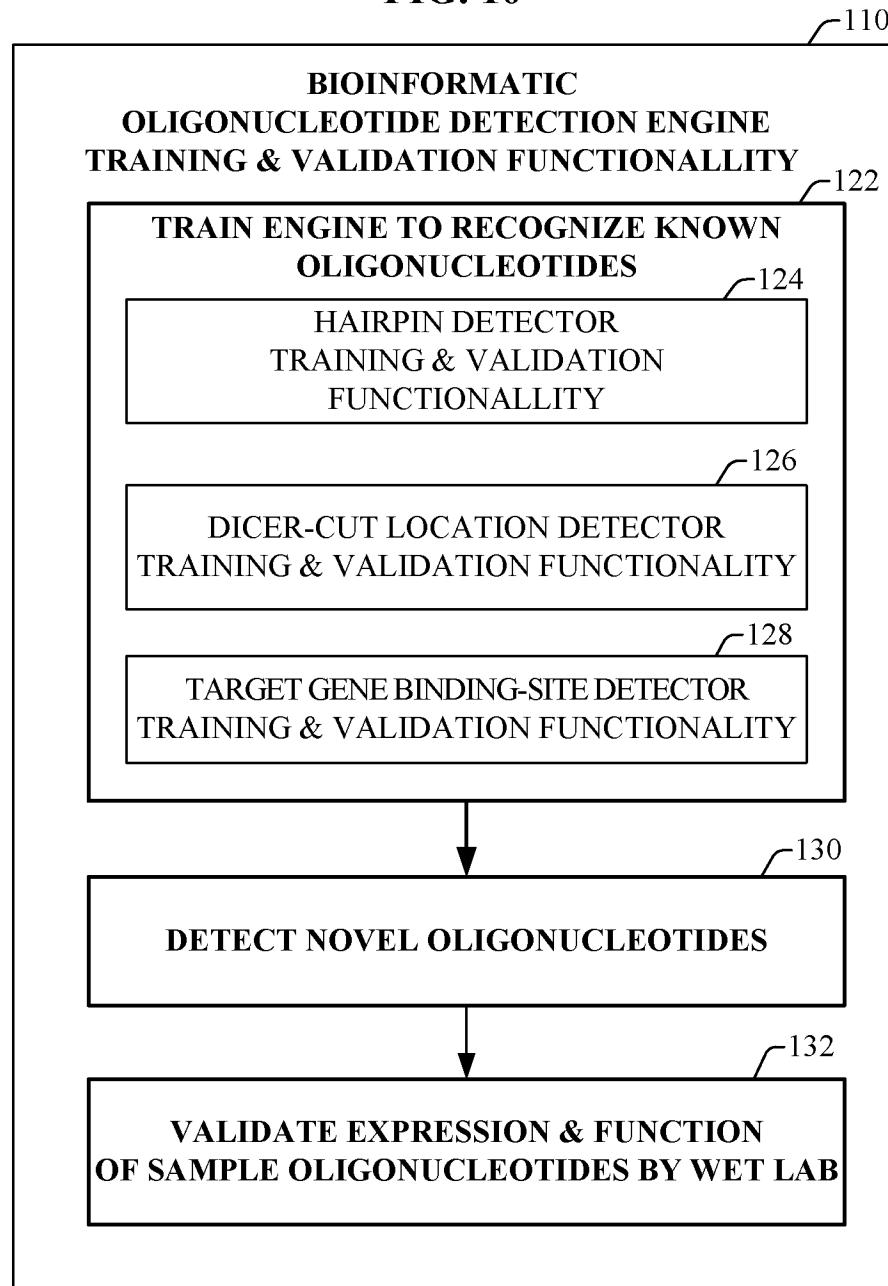


FIG. 11A

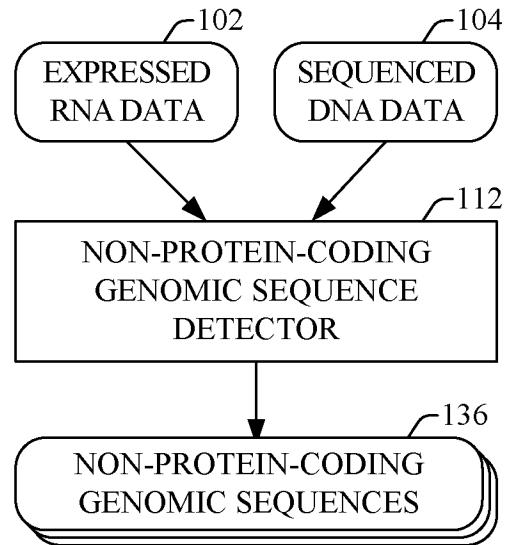


FIG. 11B

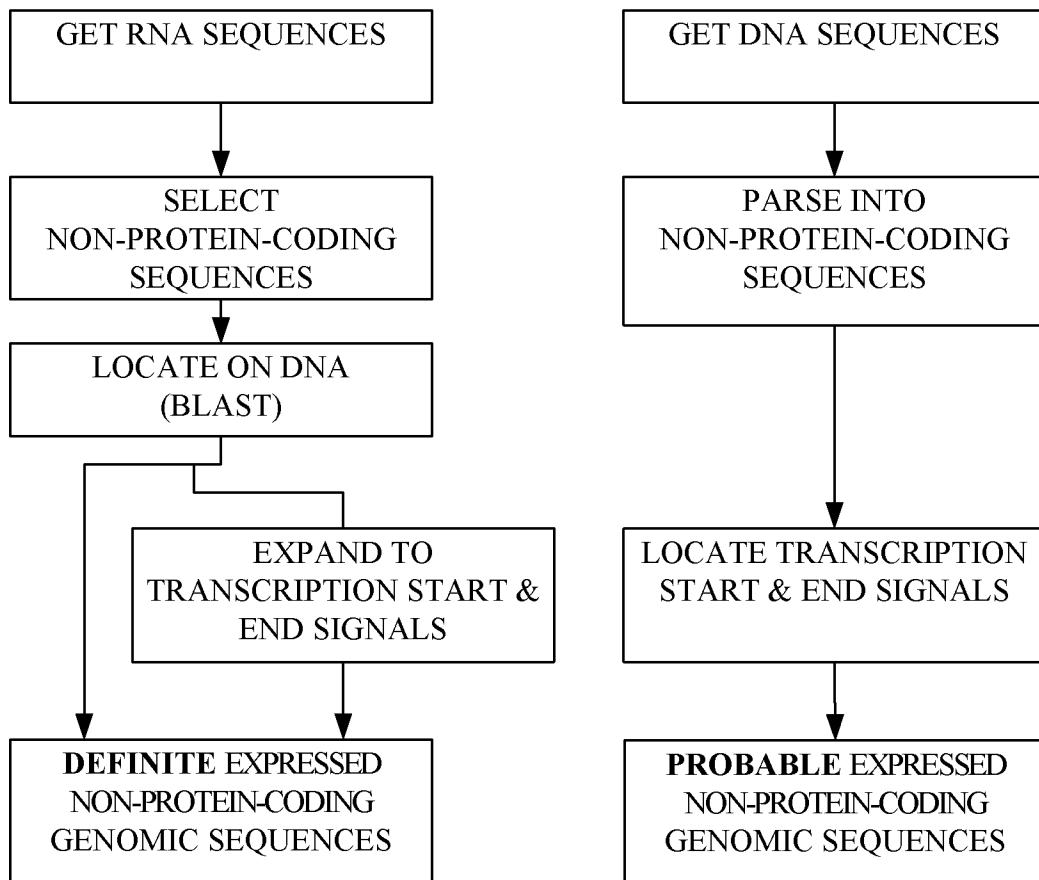


FIG. 12A

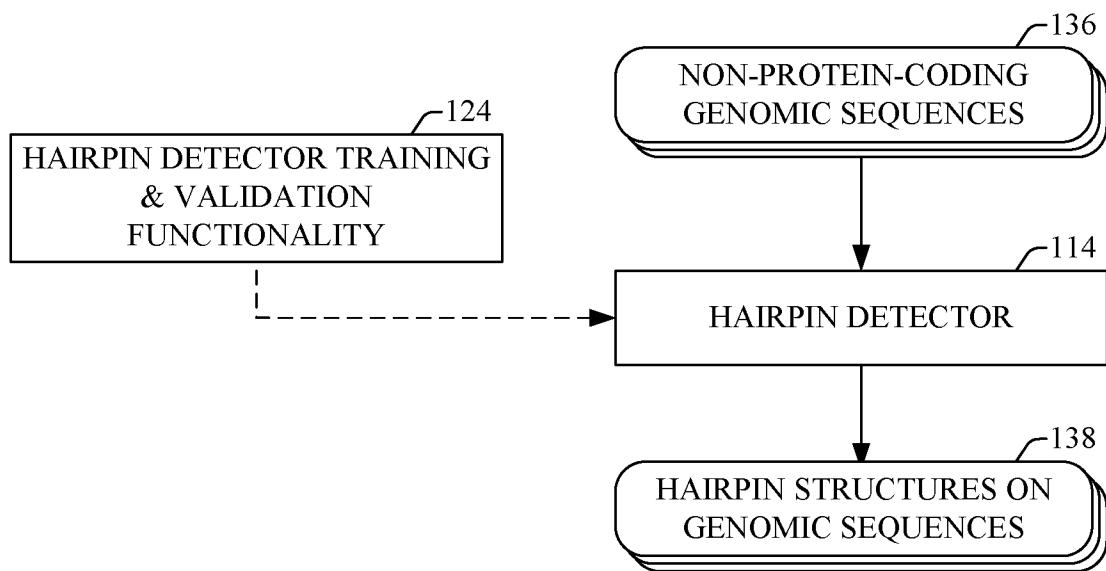


FIG. 12B

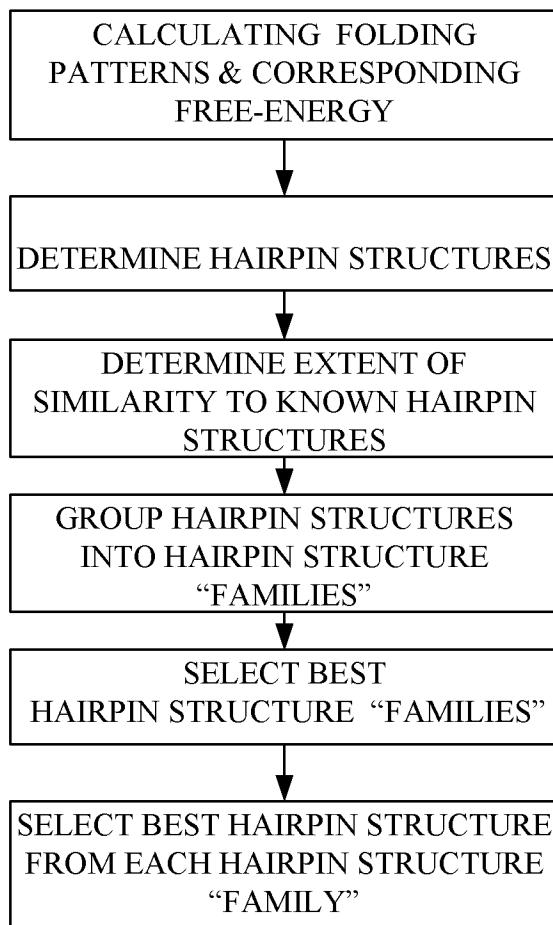


FIG. 13A

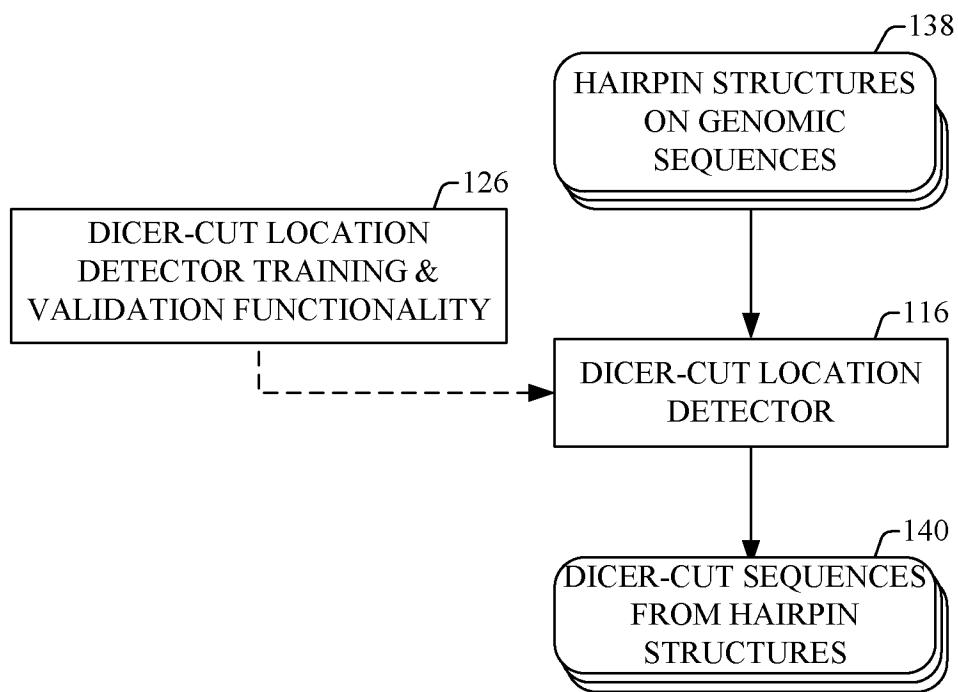


FIG. 13B

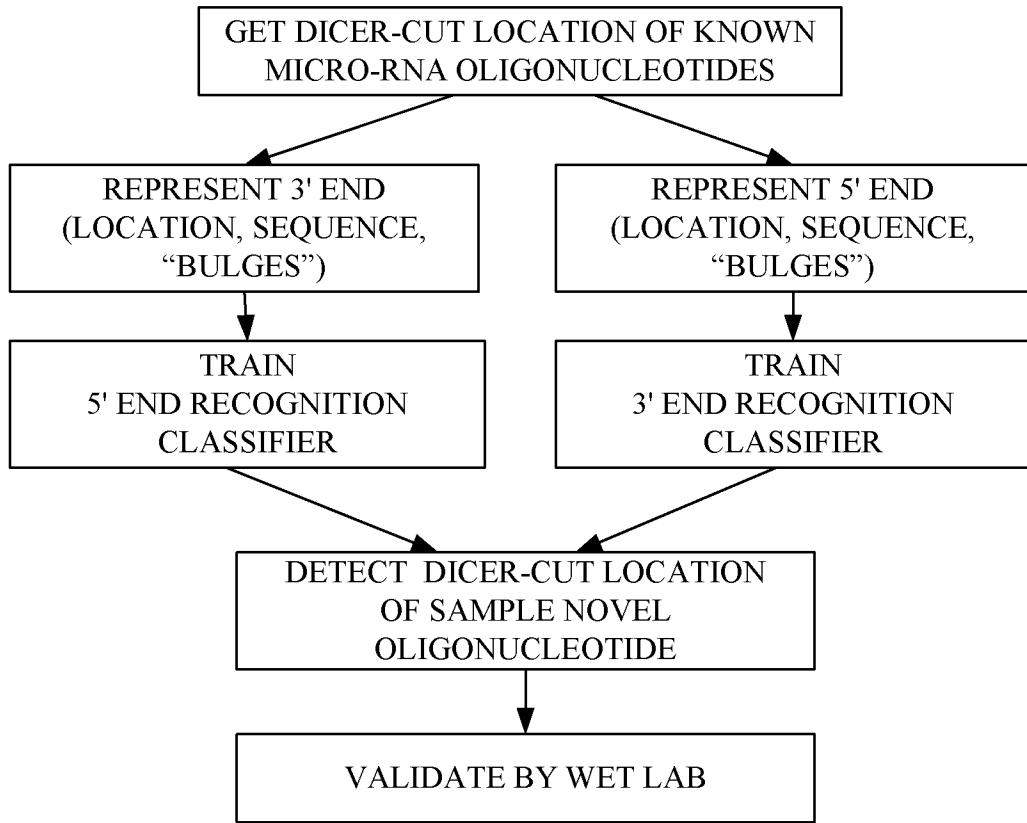


FIG. 13C

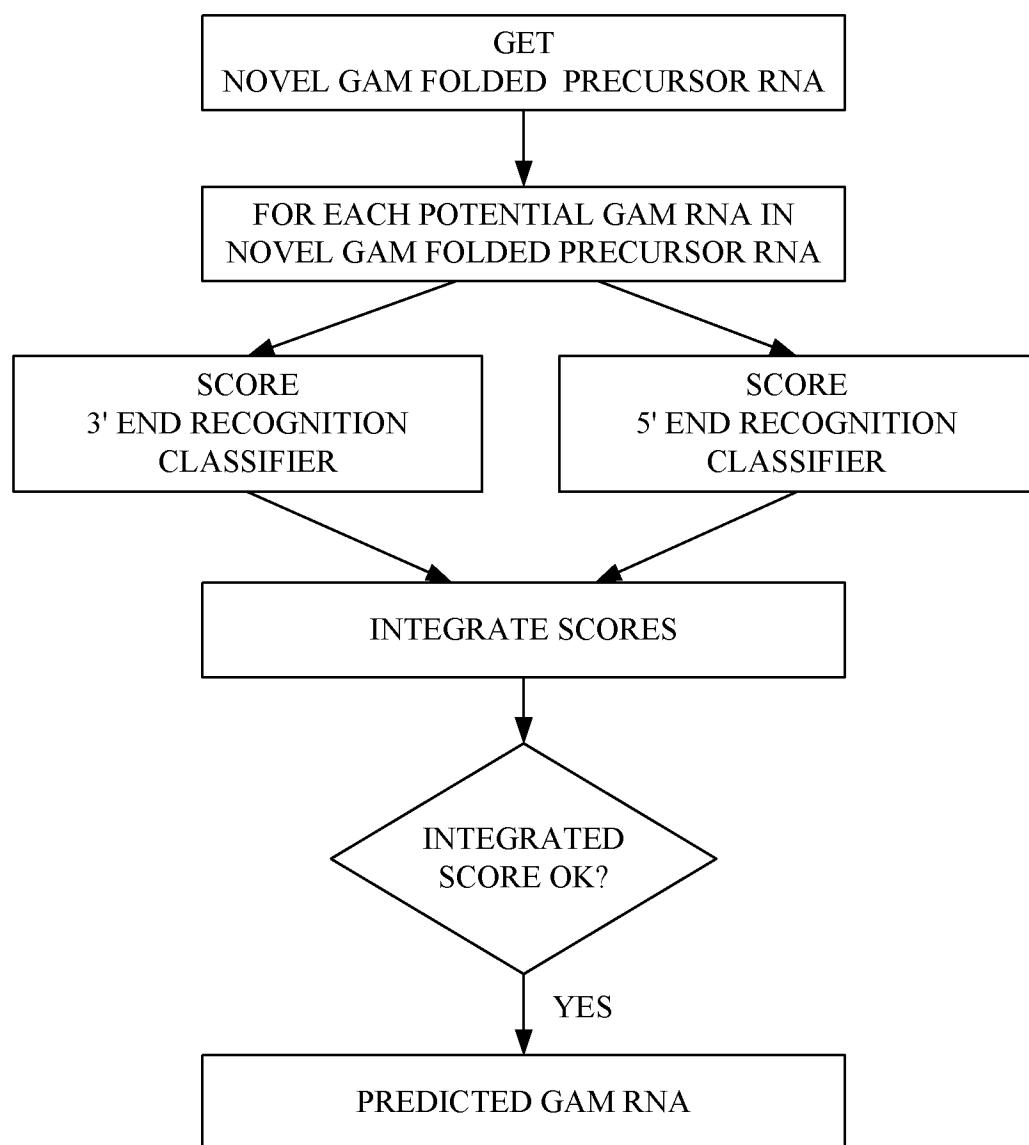


FIG. 14A

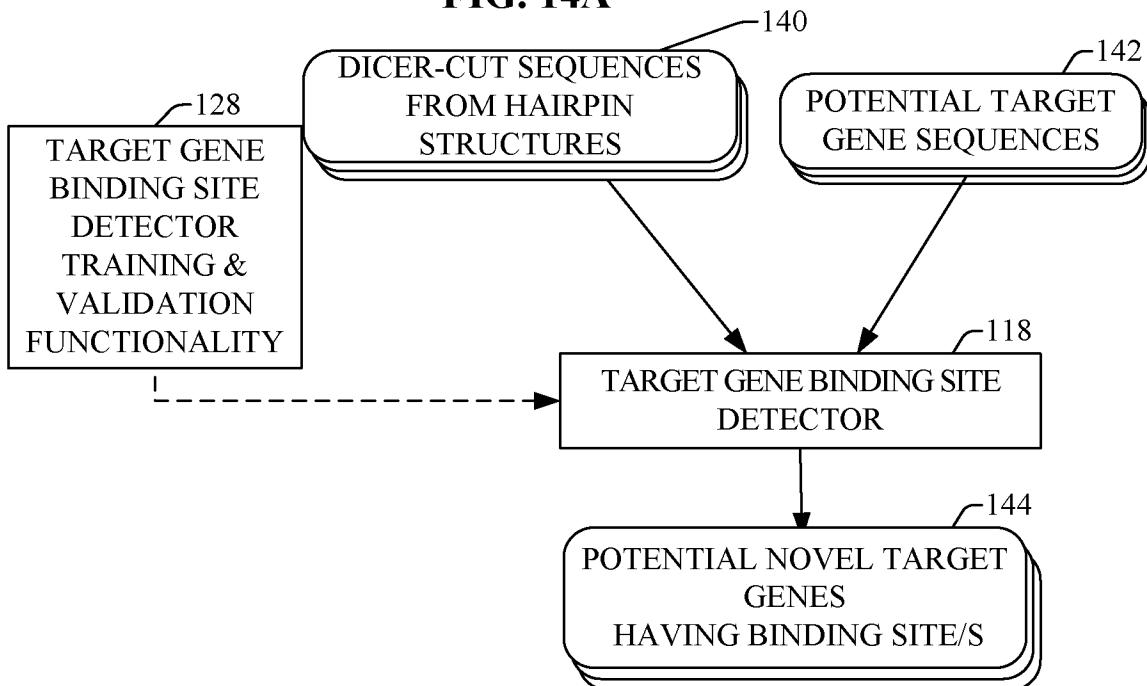


FIG. 14B

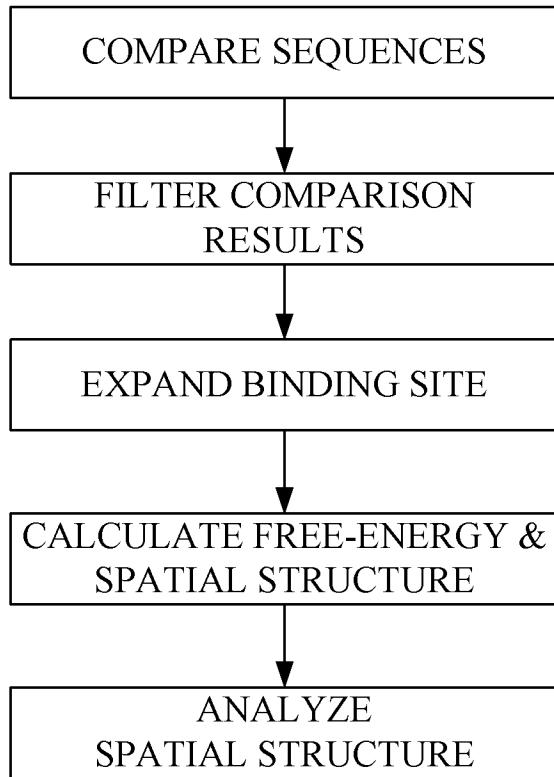


FIG. 15

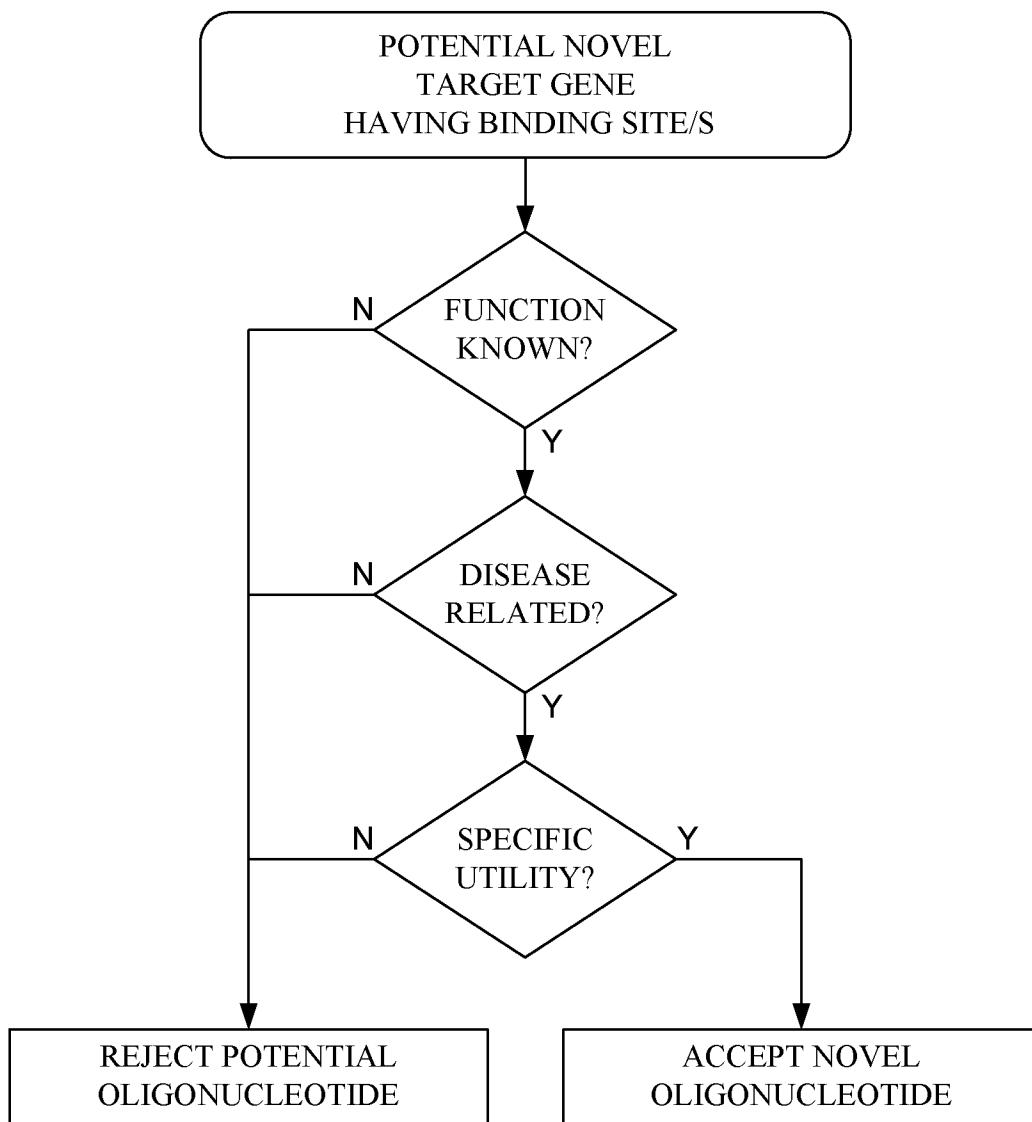


FIG. 16

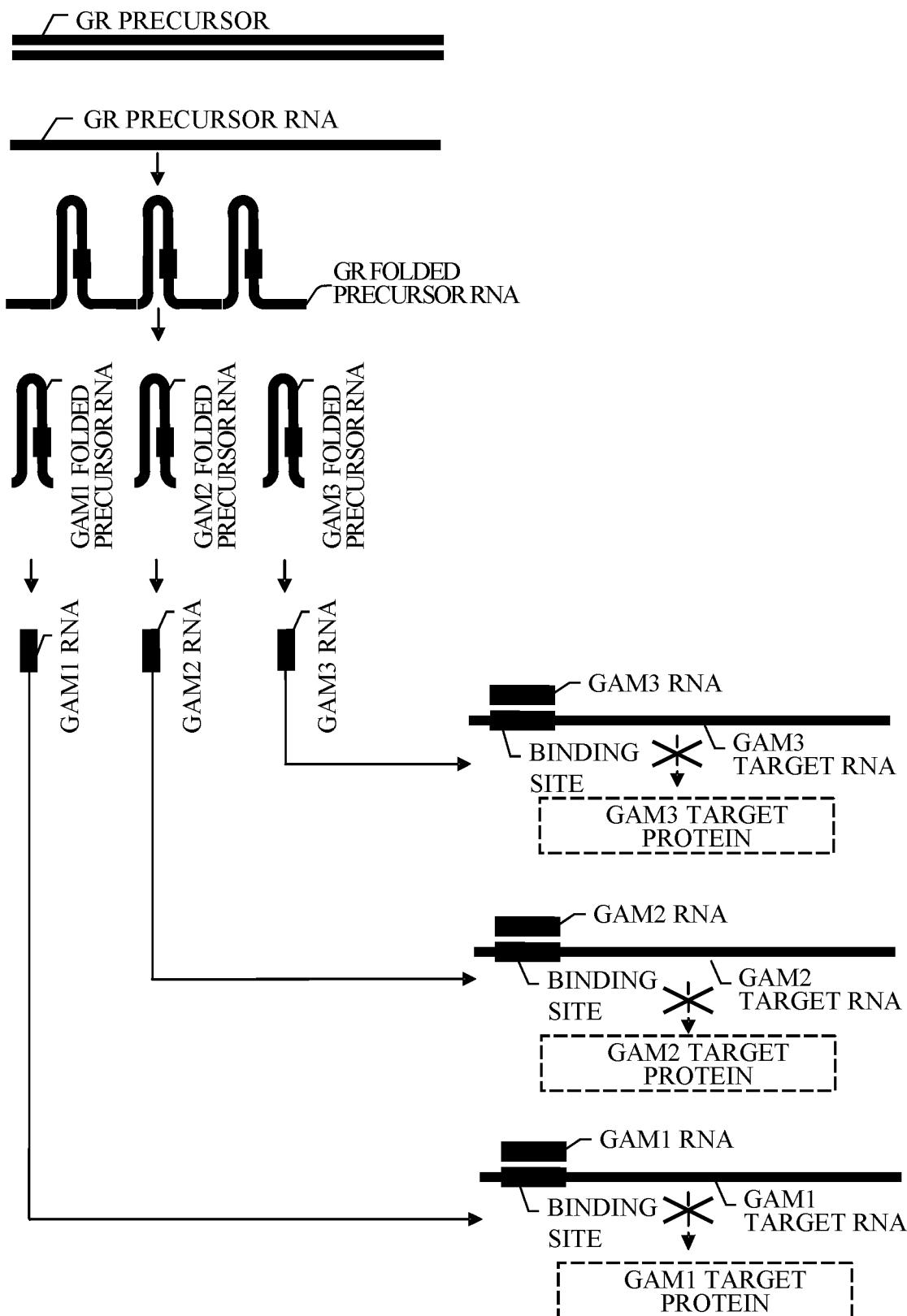


FIG. 17

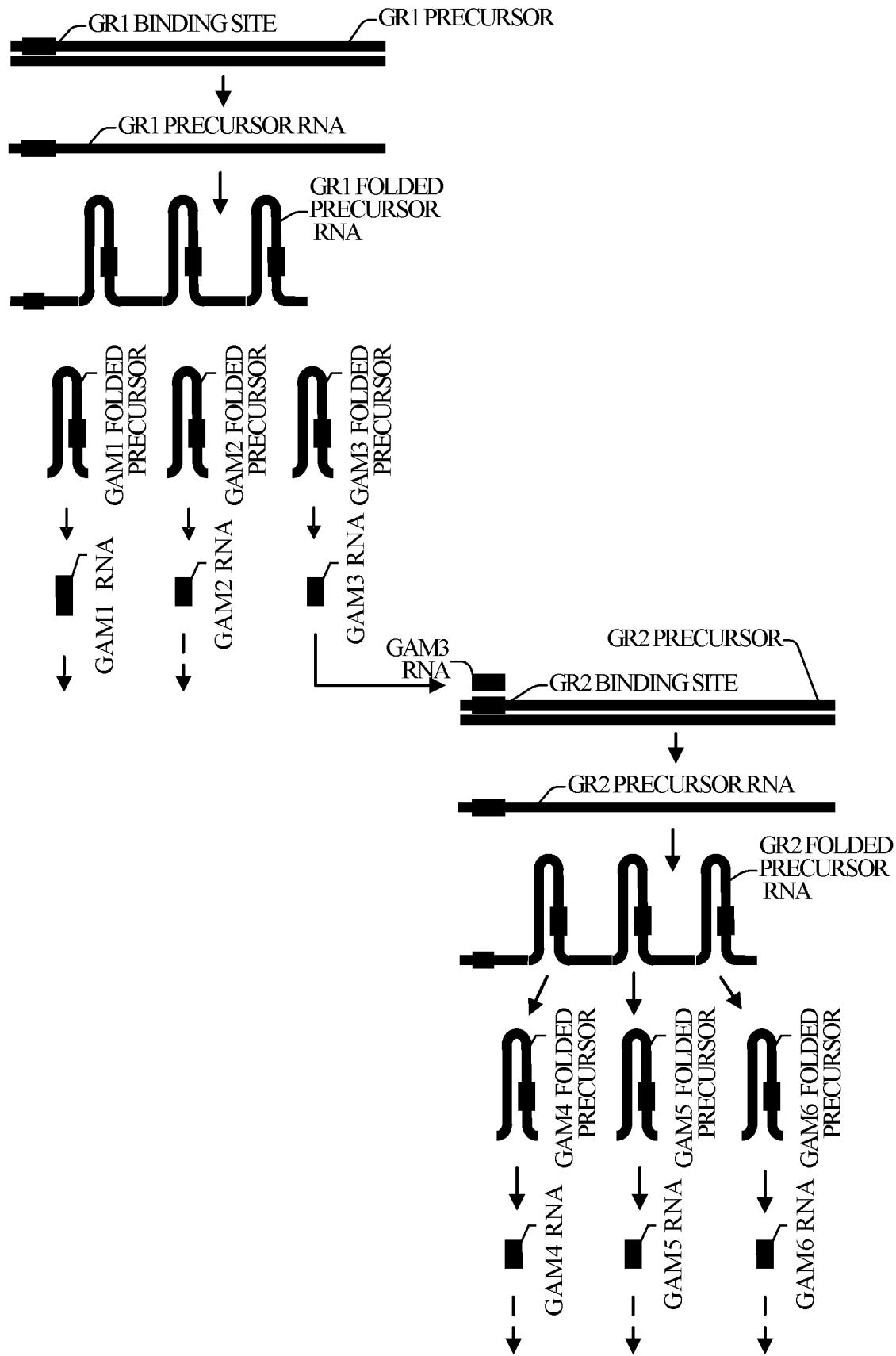


FIG. 18

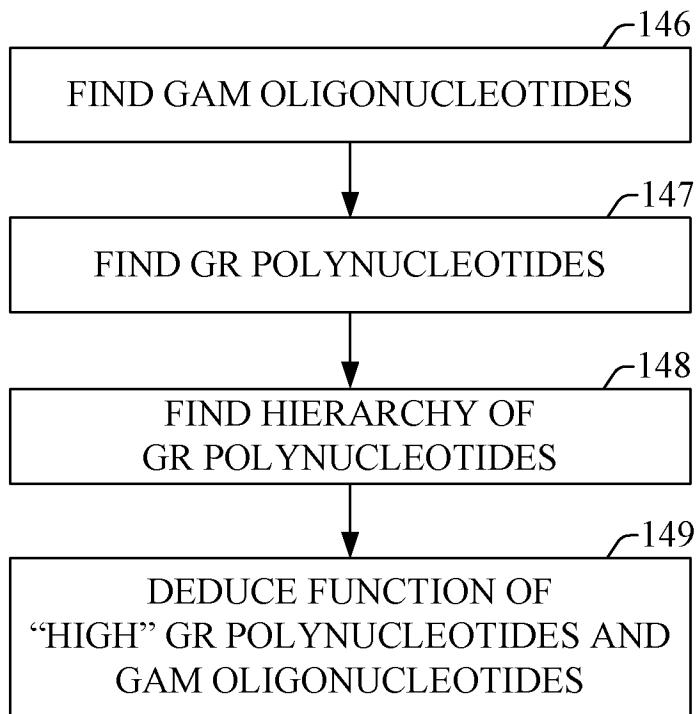


FIG. 19

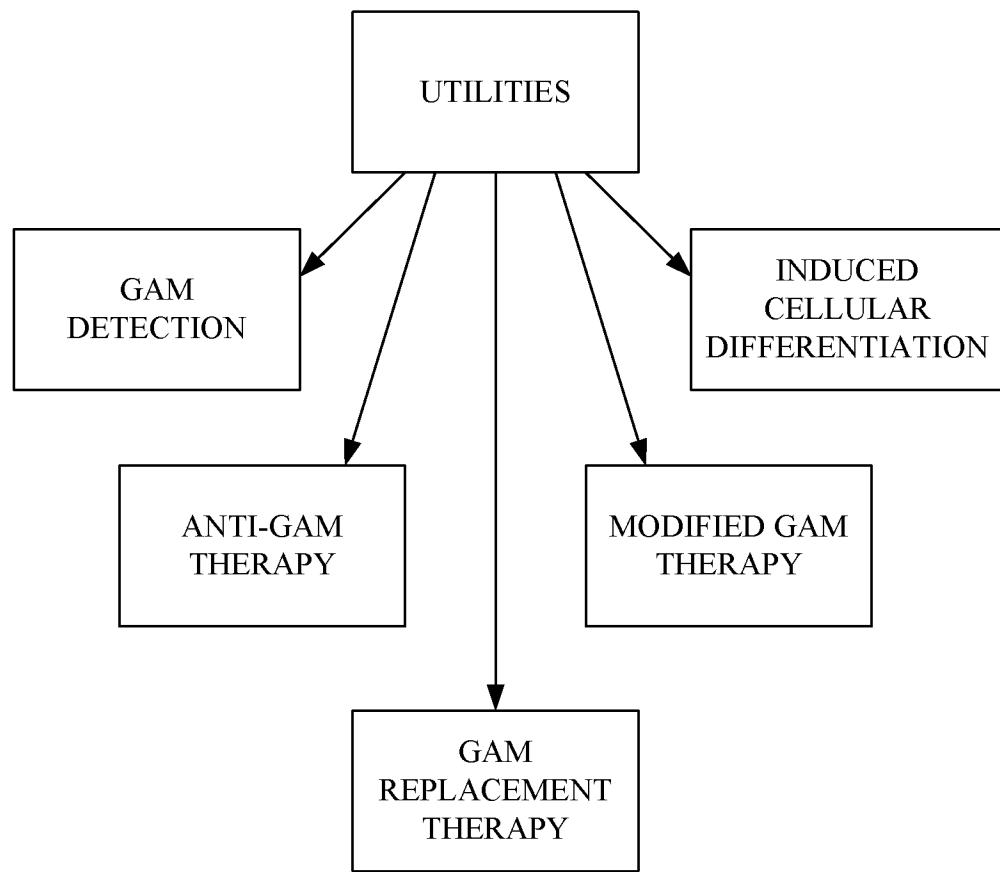


FIG. 20A

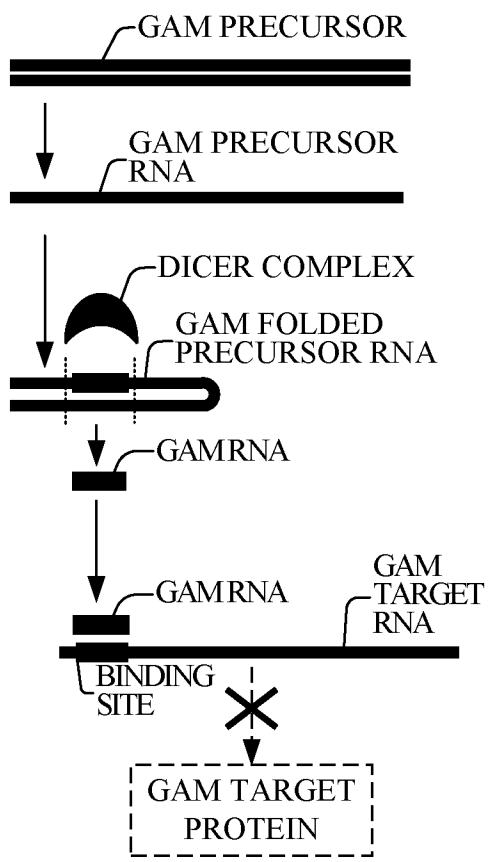


FIG. 20B

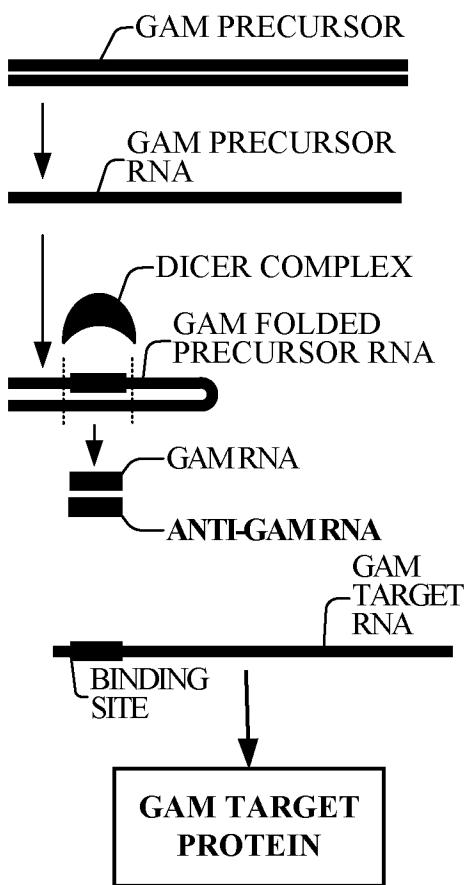


FIG. 21A

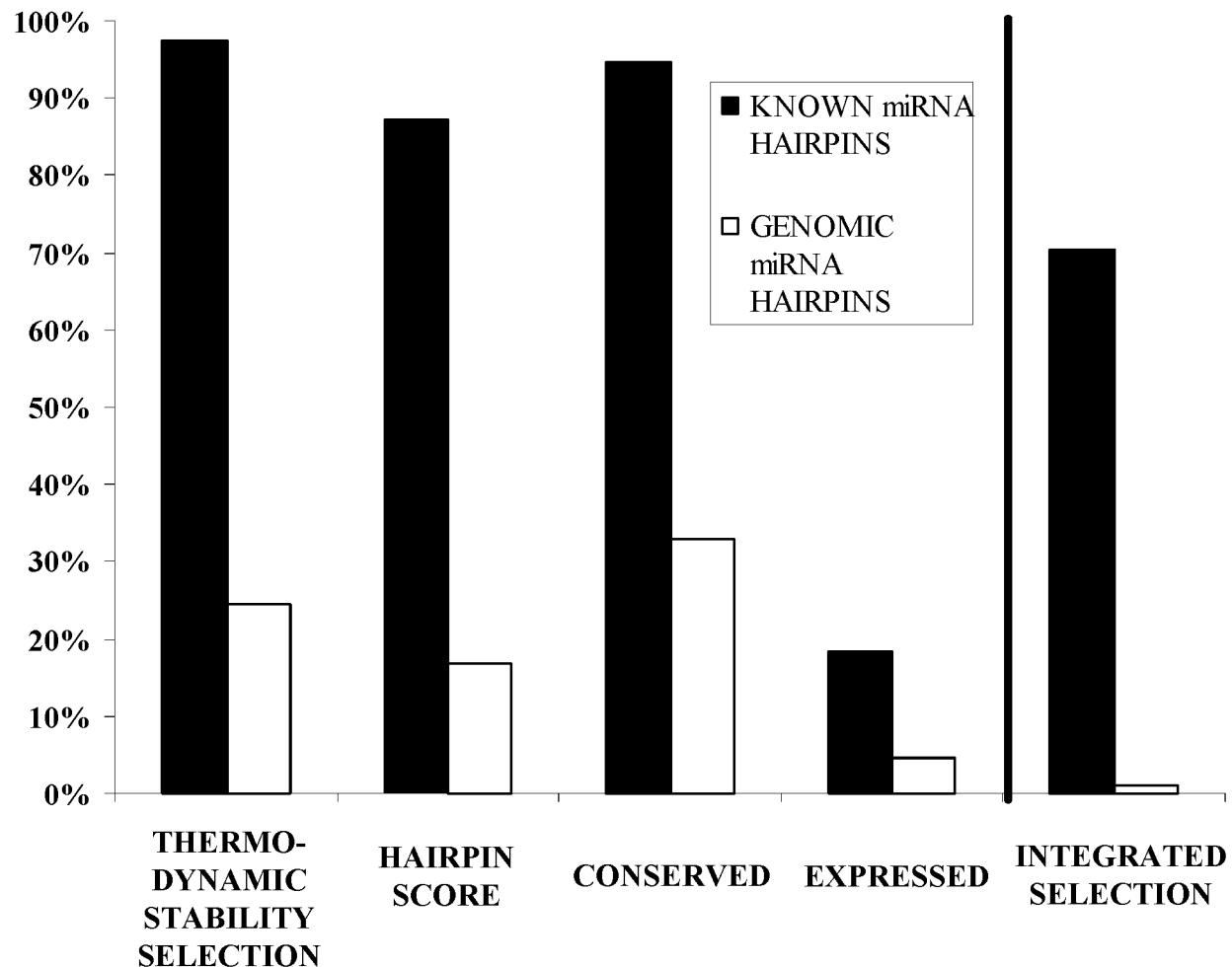


FIG. 21B

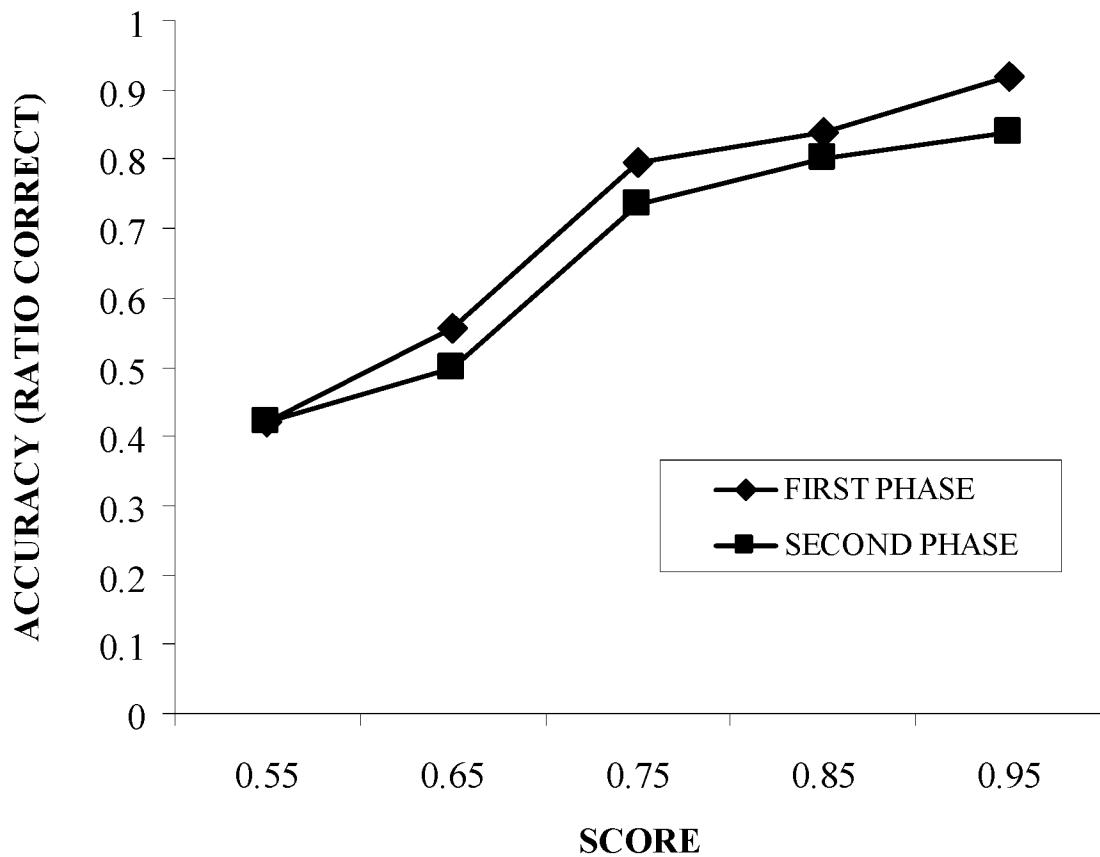


FIG. 21C

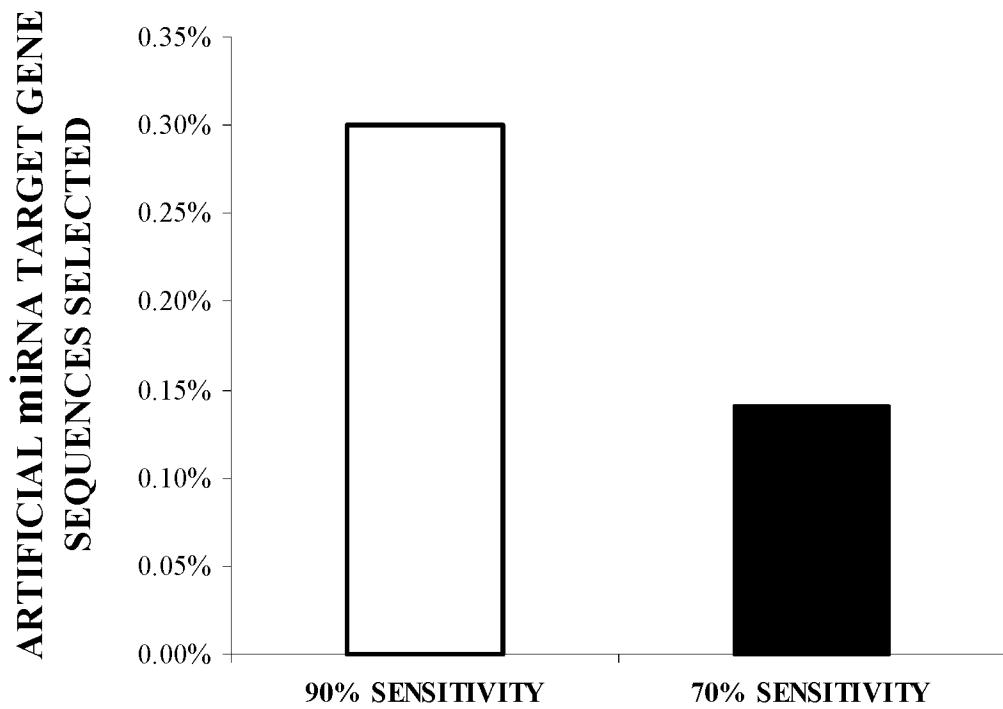


FIG. 22

ROW	PRIMER SEQUENCE	SEQUENCED SEQUENCE	PREDICTED GAM RNA	DIST- ANCE	GAM NAME
1*	AATTGCTTGAAC	CCAGGAAGTTGGA	AATTGCTTGAACCCAGGAAGTGGA	0	25-A
2*	ACTGCACCTCC	AGCCTGGGC	ACTGCACCTCCAGCCTGGGCTAC	0	351661-A
3	CACTGCACTC	CAGCCCAGGCAACA	CACTGCACTCCAGCCGGAGCAA	0	351946-A
4	CTAGACTGAAG	CTCCTTGAGGAC	CTAGACTGAAGCTCCTTGAGGA	0	352759-A
5	GAAGTTGAAG	CCTGTGTTCA	GAAGTTGAAGCCTGTGTTCA	0	4426-A
6	TCACTGCAAC	CCTCACCA	(TCACGTCAACCTCCACCCACCGTG),(TCACGTCAACCTCCACCCACCGTG)	(357950-A),(352721-A)	
7*	TCTAAGAGAAAG	GAAGTTGAGA	TCTAAGAGAAAGGAAGTCAGA	0	337950-A
8	GGGCAGTGGGA	GCTGGAA	GGGCAGTGGAGGCTGGAAATGATGT	1	351996-A
9	AATTGCTTGAAC	CCAAGAAGTGGGA	AATCACTGAAACCCAAGGAAGTG	2	351874-A
10	AGCAGGCCA	GGGTTTGT	AGCAAGACCAAGGGTTTGTGTT	2	352083-A
11	AGGCAGAACG	GACCAGA	AGGCAGAGGAGGACCAAGGAGCT	2	351944-A
12	AGGGAAAGAAAT	TAATGTGAA	GGGAATAATTAATGTGAAAGTC	2	353325-A
13	AGGGAAAGAAAT	TAATGTGAG	AGGAAAAAAATTAATGTGAGTC	2	352649-A
14	ATTCACTGTTG	CCCATGTTT	(ATTGGTCCCCATGTTTTATT), (TATTCACTGCCCCATGTTTGTGA)	2	A),(352957-A, 352960-A)
15	CTAGACTGAAG	CTCTTGAGG	CTGGACTGAGCTCCTTGAGGCC	2	352288-A
16	TTCAGAGTGGT	TAAGTTCTG	TTCTGATGGTTAAGTCTGTCA	2	353875-A
17	TTCAGAGTGGT	TAAGTCTGC	TTCAAGTGTAAAGTCTGTCT	2	351940-A
18	AGCAGCCCCA	GAAGGAAGC	AGGCCAAGAAGGAAGCAGAGG	3	352496-A
19	AGTTTGCTTGTG	TAAGAAAAG	AGTTTGTTAAGAAAAGC	3	352518-A
20	ATCAGAGGGTG	GGTGTCAA	ATTAGGAGAGTGGGTGCTAAGT	3	352511-A
21	ATGGGGGGAG	AGTTTGTCAGT	TGGAGGAGAGTTGTCAGTATAG	3	353484-A
22	CCCAGGAAG	TGGAGCCTGGGC	CCCGGGGAGGCTGGGTGTG	3	351990-A
23	GGGCAGTGGGA	GGTCCCGT	AGGGCAGGAGGTCGGTCCCTTC	3	353880-A
24	GGGCAGTGGGA	TCTAGAC	GTGACAGTGAATCTAGACAGAC	3	352810-A
25	TCAAGCTCATTC	CACTAA	CTCAGCTCATCCACTAAATCCC	3	353184-A
26	TGGAAAGTT	GGTTGTATGGTT	GGAATGGGGTGTATGGTT	3	353855-A
27	TGGAGAGTT	CCATATTG	TGATAGATCCATATTGGTAA	3	352004-A
28	TGGAGAGTT	GTGTTGACAGGT	TGGGGTTGTTGTACAGGTGA	3	353160-A
29	TCACTGCAAC	CTCCACC	TCACTGCAACCCACCTCCCG	0	353856-A

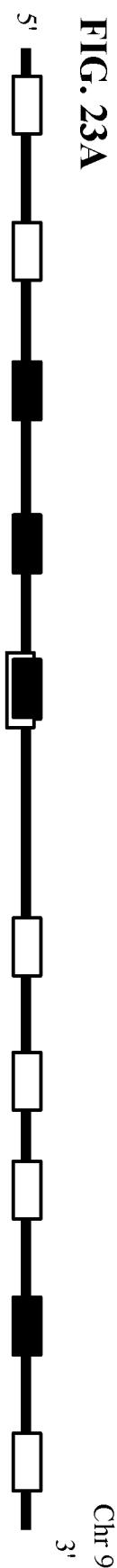


FIG.
23B

FIG.
23B

FIG. 23B

C	G	TTC	CCA	CG	
ACA	----	-	----	AG	
A	GGC	GTG	AAGG	CGGC	T
T	CCG	CGC	TTCC	GCGC	G
GAC	AAGG	C	TGCG	CT	

-- - C GTGACT
 5' TGG GTTCCCTGGCA TG TGATTT T
 3' ACC TAGGGACCGT AC ACTAAA A
 AT T - ATTAGA

- CACT ----- T A ACA -- - G- ----- -GG
 5' GGTCG CGCT GCA GAT GG GA GGT GCATCT C TAGCT CTTTTT A
 3' CCAGT CGCG CGT CTG CC CT CCA CGTAGA G GTGCA GAAGAAA A
 A CC- ATTATTATT A GG- CT A GA CCACCA ACA

Sequence logo for GAM252 N252 showing the sequence TCTCT AGAGA AG- followed by a black box and the sequence ATG AGGTGCAGAGCTTAGCTG TCCACGCTTGAATGGT GA-- TCGAT GTGAAACAG CACTTGTT TGG T GCC T T.

GGGAGGAGCCGCAGAATTGCGCTA
 TGCA TTAAGTGG TG GGCAG GGGCG GCT A
 GC GT GGTCGACT AC TCGTC CCGGC CGG C
 ---- G GAC--- G G -- G

' GGTCAAATGTATTGAAAGTTGCAAAAATTCTTCTTACAAA
' AAACTAAAACCAATGCATCACCTAAGTCGTGTGAAATCA

TG -- C -- GG T G T
 5 ' GGCTG A GCGGGG GGGG CG GC TTTCGGAG AGC C
 3 ' CTCGAC T TGTTCCT CTC GT CG GGGTCTT TTG C
 GT TA C AA GG G G G

G G A	TA	TCTCAT
5' CTCC GT CCT CTCGAGCTGA	TCAGT	\
3' GAGG CA GGA GACTTGACT	GGTCA	T
A A C	C-	CACATT

-	AT	T	AAA	AG	----	-	-	T
TAGC	AGCT	TGTG	ACGC	GCCTG	TACA	GCC	TG	C G
GTGC	TGGC	ACAC	TGCG	CGGAC	TGTG	CGG	AC	G G
C	C-	-	AC-	GA	GCAC	T	T	T

FIG. 23C

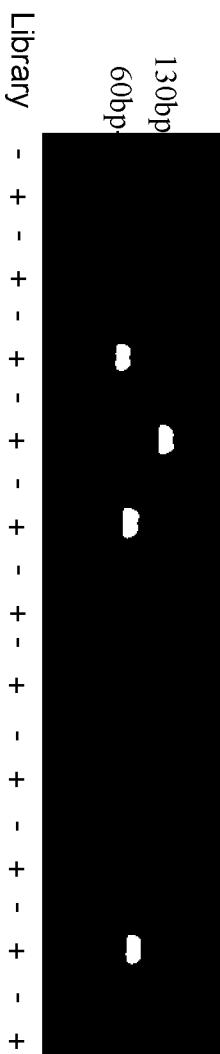


FIG. 24A

EST72223 (705 nt.)

Chr.X



EST72223 sequence:

CCCTTATTAGAGGATTCTGCTCATGCCAGGGTGAGGTAGTAAGTTGAT
TGAGGTAGGGATATTAGGCCAATTAGAAGATAACTATACAACT
TAC TACT TTCCCTGGTGTGGCATATTCACACTTAGCTTAGCAGTGTG
TCCATCAGACAAAGTTGTAGATGTCCTTGATAATTGGACTGGAAGAAAAGA
GACATGGAAGGGGACAGATGGTGTAGGGTAGGCAGATGTCATTATAAAGT
GA CTT GTCTT CATT AATT GGAGCATATAATT ATTACCTTGGGATGAACTC
ATTTT GCT ATT CTT CA ACT GTG TA ATGATT GCATTT ATT AGTA ATAGAACAGGA
AT GTGTGCAAGGGAAATGGAAGCATACTTTAAGAATT TG GCCAGGCGCGGT
GGTTCATGCCTGTAATCCCAGCATT TTGGAGGCCAGGGCGGTGGATCAC
CTGAGGTCAGGAGTTCGAGACCAACCTGGCCAACACGGC GAAACCCCCGCCTC
TACTCAAATACAAAAATTAGCCAGGCTTGGTGA CACT CGC CTGTGGTCCCAGC
TACTCAGGAGGCTGAGGCAGGAGAATTGCTGAACCCAGGAAGTGGAG
GCTTCAGTGAGCTGAGAACACGCCACTGCACTCCAGTCCTGGCAAC
AGAGCAAGACTCTGCTCAGGAAAAAAAAG

FIG. 24B

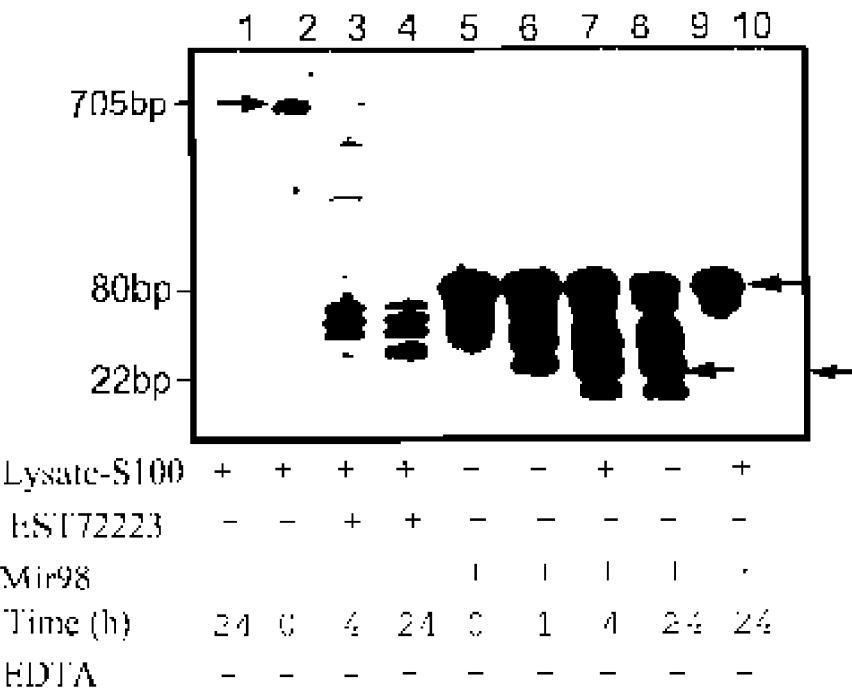


FIG. 24C

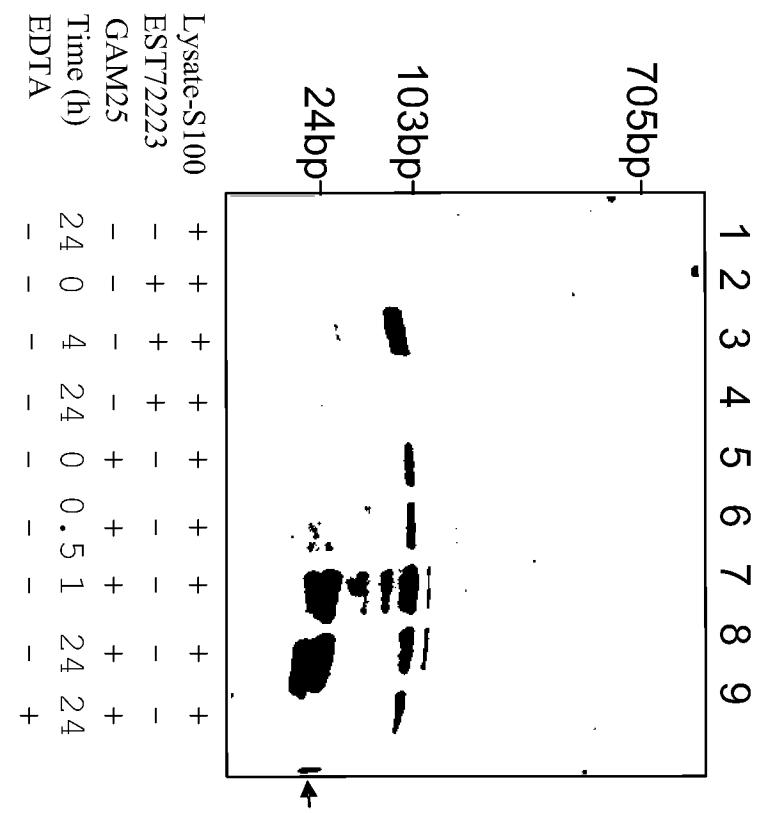
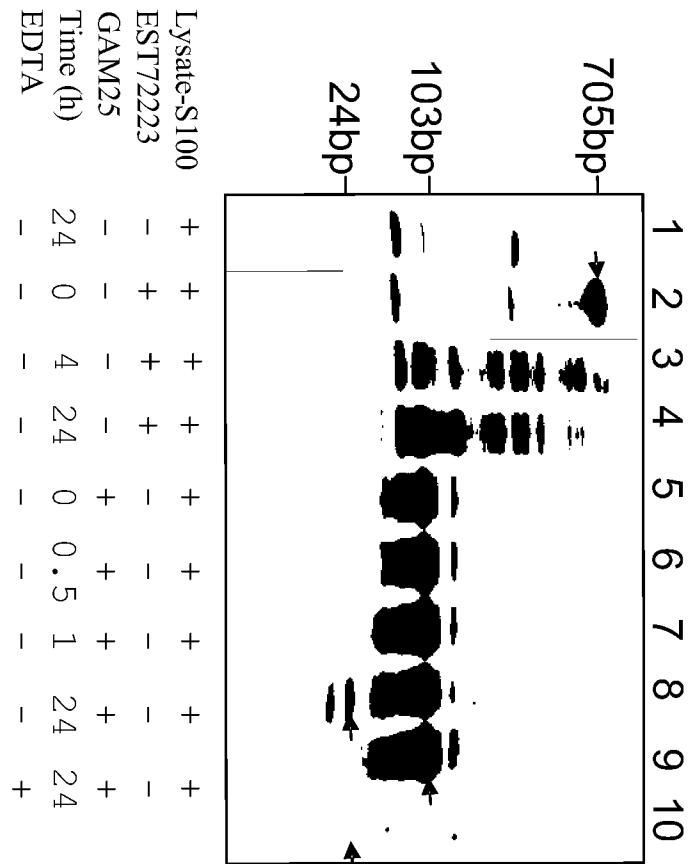


FIG. 24D

FIG. 25A

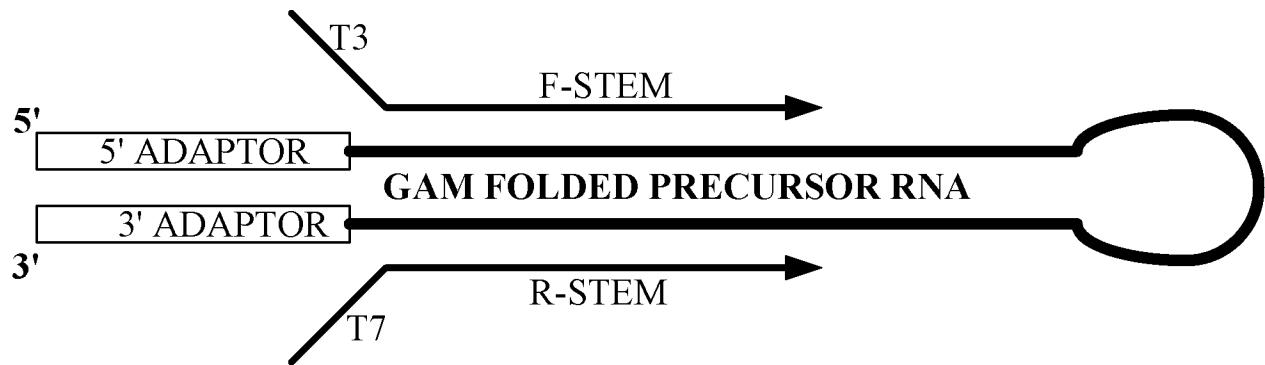


FIG. 25B

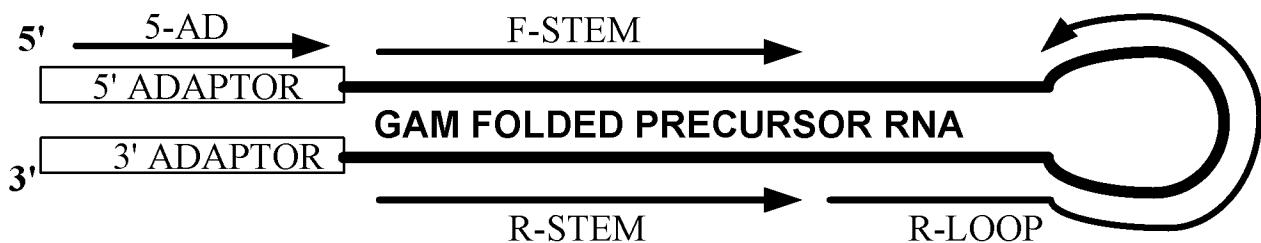


FIG. 25C

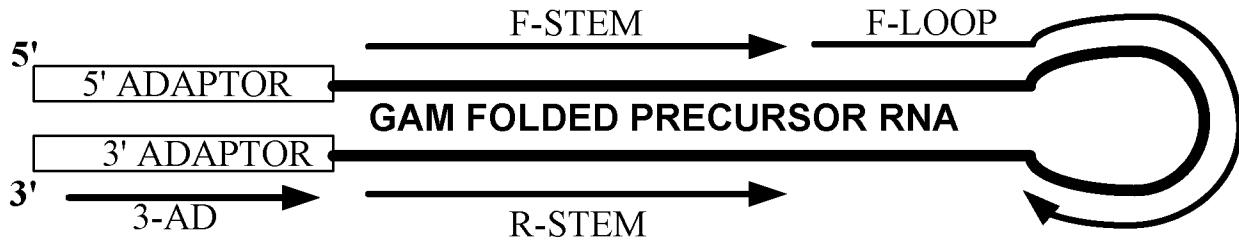


FIG. 25D

PRE # SEQUENCE	PREDICTED PRECURSOR SEQUENCE	PRIMER1 TYPE/NAME	PRIMER1 SEQUENCE	PRIMER2 TYPE/NAME	PRIMER2 SEQUENCE	METHOD	OBSERVED SEQUENCE	GAM NAME
1 T	AATGCTGAGTCCT GTGAGTCTCCTA GCAAATCAAATCT GGAAGGGGTCTG AGGACTCCAGCAT			GAGTCCTG TGAGTCTT CCTAGC	TGCTGGAGT CCTCAAGA CC			
2 CTGT	TGAGCCCTCAGCC CTCATGGCTTCC CGATGCTCACCGG TGCAGAGGAGCC AGCTGGGAGCCT		AAAGCCAT GAGGCTG AGG	R	STEM 1 3	R	STEM 1 3	A
3 AACAGT	ACTGTTGGTCTTC TGTCTAGGCCATTA TTCTCAGTTCTGT GCAGGGAGTGAGCT GAAACAAAGTTGT ATAGCCCAGAGA GTGAGAAGCTGCA TTCTCATGTCCTCC AACAGT	F	LOOP 2 1		R	STEM 2 1	GTGAGCAT CGGGAAG CCA	B

FIG. 26A

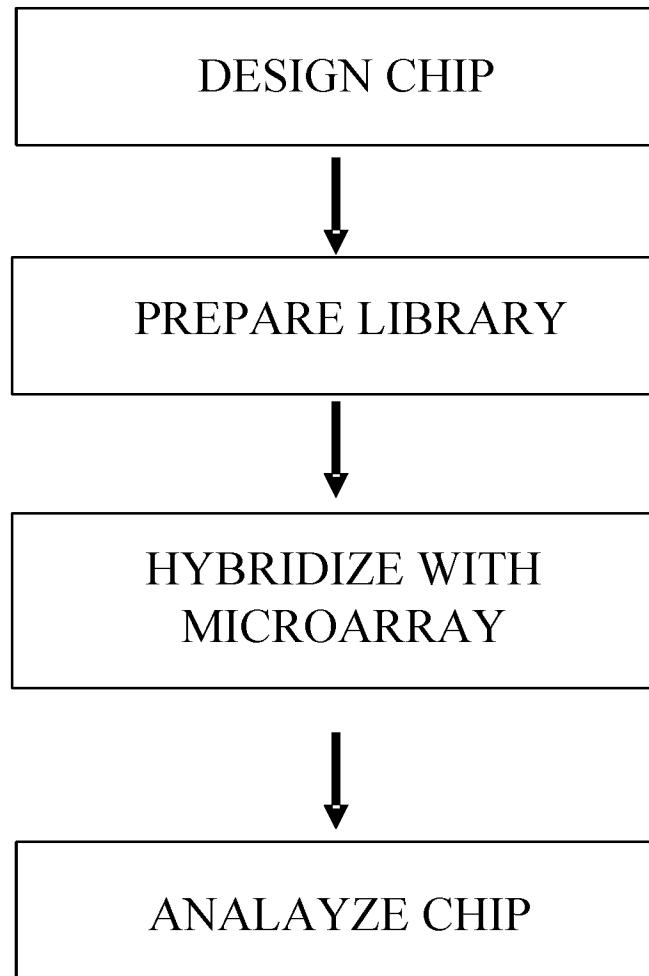


FIG. 26B

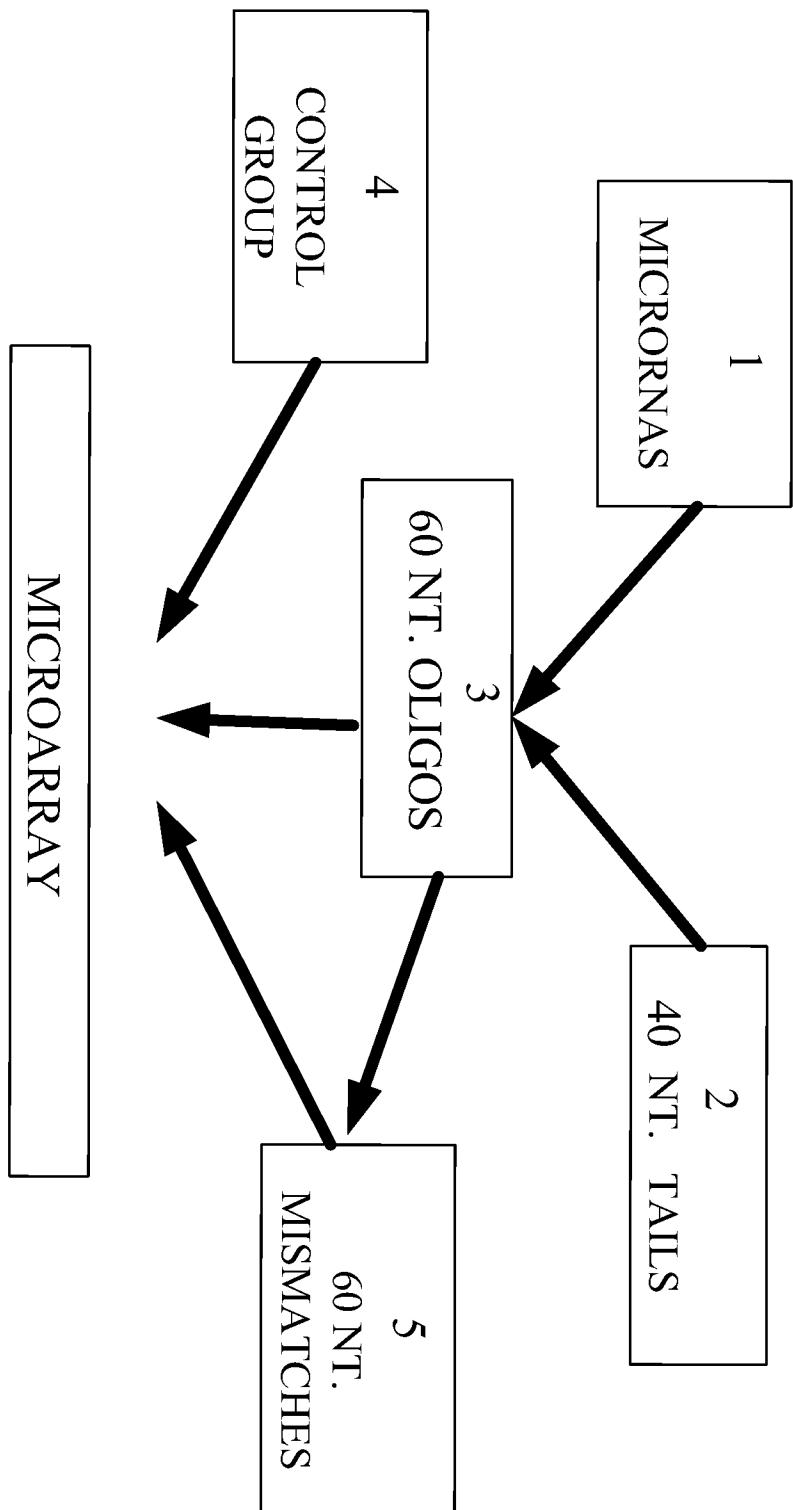


FIG. 26C

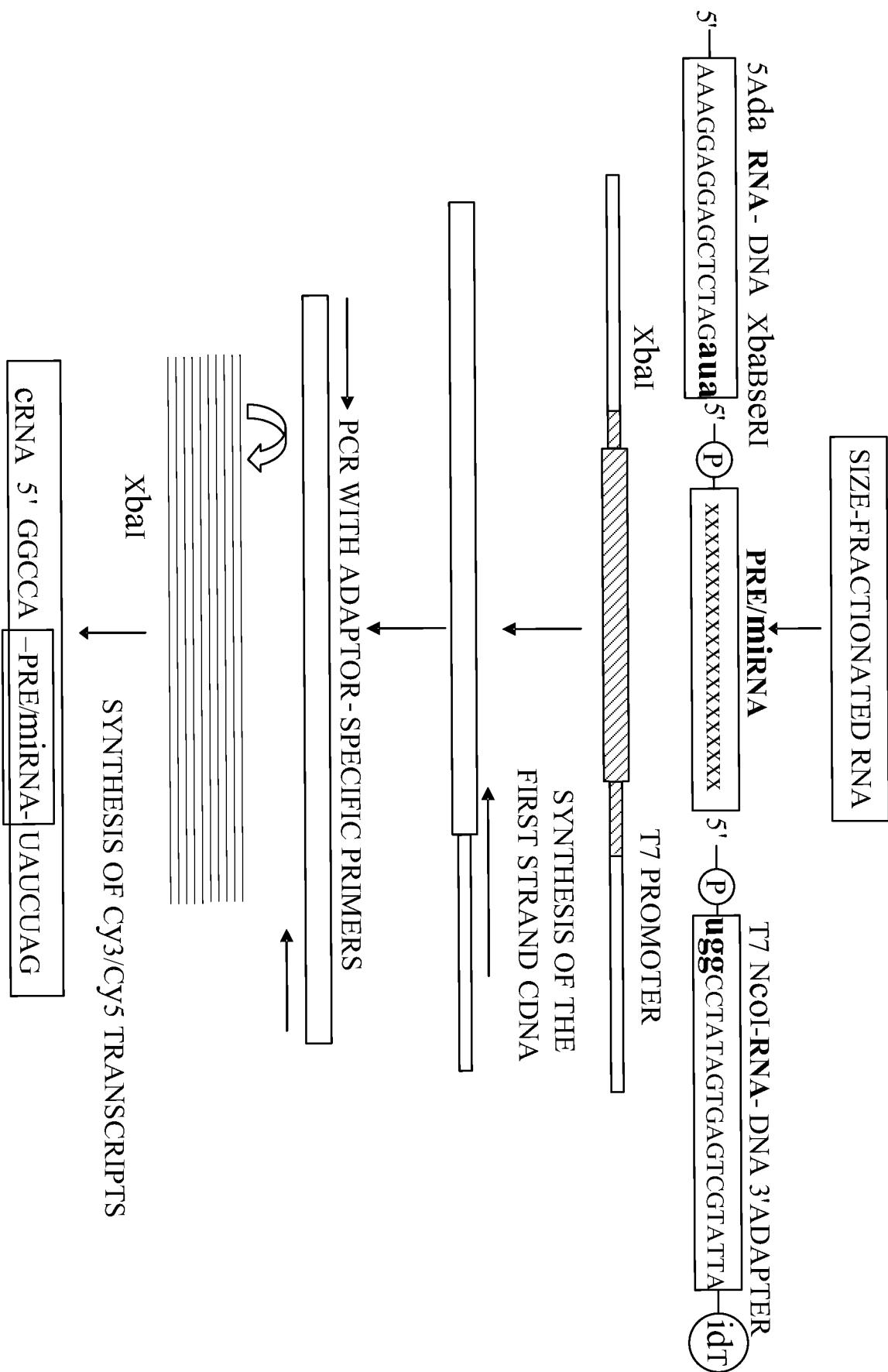


FIG. 27A

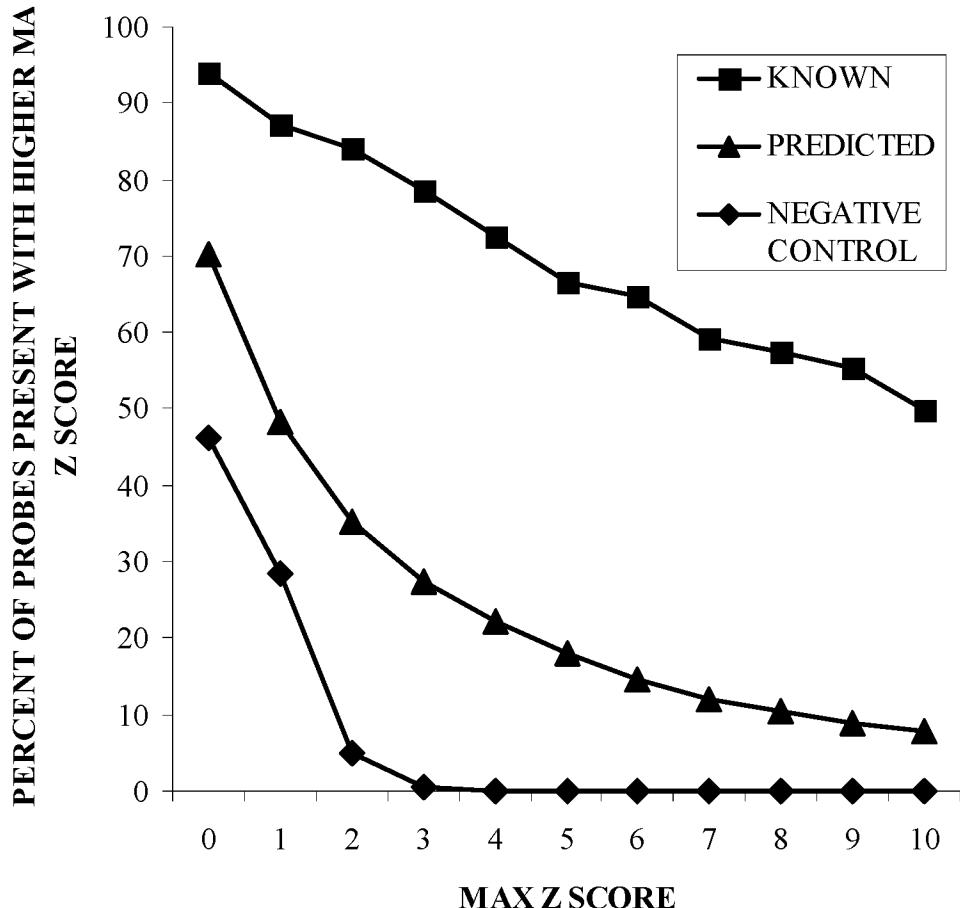


FIG. 27B

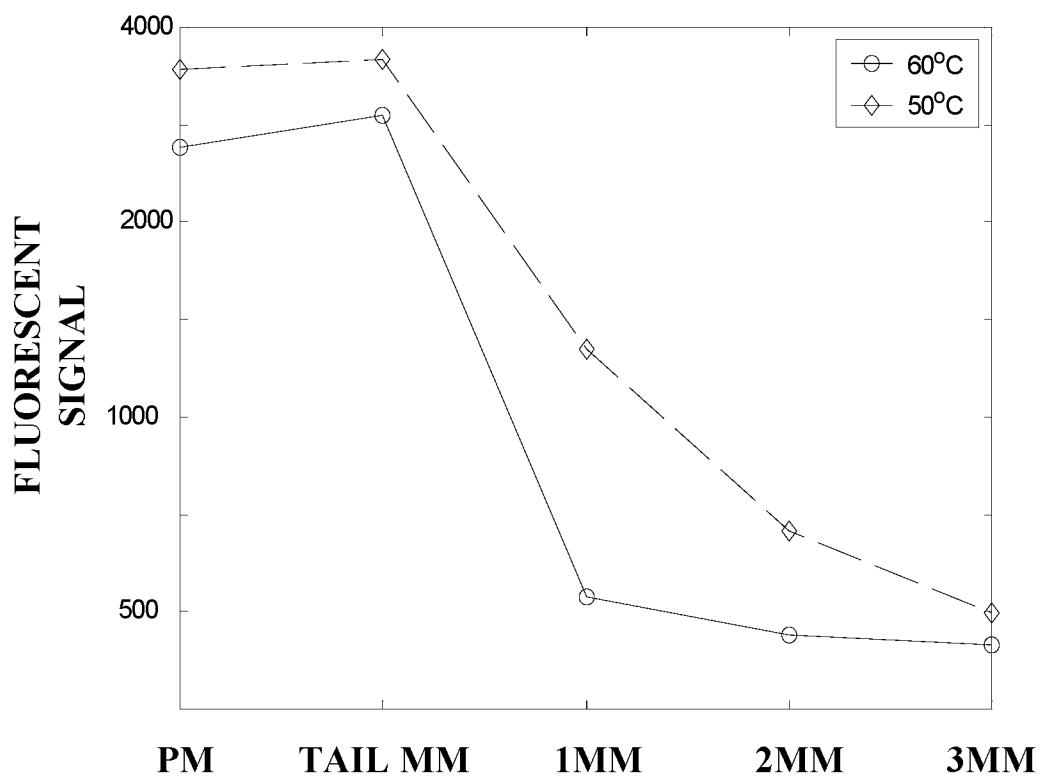


FIG. 27C

MIRNA NAME	HELA	BRAIN	LIVER	THYMUS	TESTES	PLACENTA	REFERENCE
HSA-MIR-124A	1879	65517	7025	3099	2672	2498	1,3
HSA-MIR-9	642	42659	3504	4455	4485	2313	2,3
HSA-MIR-128A	2015	27701	4940	4876	5166	2495	3
HSA-MIR-129	503	22573	1175	2213	5364	2017	3
HSA-MIR-128B	1168	21969	3954	4819	5383	2027	
HSA-MIR-122A	1051	447	65518	2644	617	570	1,3
HSA-MIR-194	501	910	65518	4737	2342	7952	3
HSA-MIR-148	413	620	38436	5250	6204	2711	
HSA-MIR-192	452	606	20650	1628	1263	2607	
HSA-MIR-96	887	3100	1477	44800	2266	5466	
HSA-MIR-150	648	1463	5295	65518	29728	5280	
HSA-MIR-205	551	615	1646	65518	2645	39072	
HSA-MIR-182	662	1944	1091	25771	2034	3683	
HSA-MIR-183	1026	1123	1286	8754	1681	2138	
HSA-MIR-204	525	3898	1757	6535	64859	6233	
HSA-MIR-10B	410	433	477	3871	23083	738	
HSA-MIR-154	438	733	1914	3309	14750	9637	
HSA-MIR-134	448	617	698	763	2250	997	
HSA-MIR-224	3233	11061	7684	32305	5377	65518	
HSA-MIR-210	844	2280	10703	6864	15288	62452	
HSA-MIR-221	625	9325	3520	20212	10608	54287	
HSA-MIR-141	696	805	1220	4063	2000	46845	
HSA-MIR-23A	1312	3492	2990	6021	11173	40076	
HSA-MIR-200C	556	595	1027	10636	1478	33532	
HSA-MIR-136	465	725	709	776	3100	8840	

¹ LAGOS-QUINTANA ET AL., CURRENT BIOLOGY 12:735 (2002)

² KRICHEVSKY ET AL., RNA 9:1274 (2003)

³ SEMPLER ET AL., GENOME BIOLOGY 5:R13 (2004)